CONSTRUCTION NEWS

PERSONALS, ENGINEERING SOCIETIES, ENGINEERING SCHOOLS, READERS' WANTS, INDUSTRIAL NOTES, PUBLICATIONS.

Supplement to ENGINEERING NEWS. New York, September 15, 1904.

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PERSONAL.

Mr. Philo Jayne has been elected Superintendent of Water-Works at Perry, Okla.

Mr. A. C. Stites, M. Am. Soc. C. E., is now located at 453 Century Building, St. Louis, Mo.

Mr. D. C. Fox has been appointed City Engineer of Norman, Okla., succeeding Mr. Andrew Bible, resigned.

Mr. Godfrey Sperling has been appointed City Engineer of Boise City, Idaho, to succeed Mr. Charles H. Irwin.

Mr. S. M. Savage, of Cambridge, Mass., has accepted a position as Assistant Engineer in the service of the State of New York.

Mr. E. H. Livering has been appointed Resident Consulting Engineer of the Associated mines, located at Kalgoorlie, Western Australia.

Mr. R. S. Sumner has been appointed Engineer of Construction of the Colorado & Northwestern R. R., with headquarters at Boulder, Colo.

Mr. Walter H. Bunce has been appointed Chief Engineer of the American Mining Co., with headquarters at Port Deitrick, Cape Gracias, Nicaragua.

Mr. George D. Blood has been appointed Chief Engineer of the United States & Nicaragua Co., and will make his headquarters at Yauli, Segovia, Nicaragua.

Mr. Henry Pels, of Germany, who is head of the firm of Henry Pels & Co., 66 and 68 Broad St., New York, is at the present time in this country on a short visit.

Mr. Geo. B. Cornell, M. Am. Soc. C. E., has removed his office to 20 Broad St., New York City, where he will continue to practice as general consulting engineer.

Mr. Robert W. Lesley, of the American Cement Co., has removed his office from 20 and 22 South 15th St. to Rooms 604 to 610 Pennsylvania Building, 15th and Chestnut Sts., Philadelphia.

Mr. Godfrey W. Rhodes, Assistant General Superintendent of the Chicago, Burlington & Quincy Ry. (Lines West of the Missouri River), has been appointed General Superintendent of the Wyoming District.

Mr. Arthur Tepper, formerly of Wyoming, N. J., and Miss Hannah Harrison Whittingham, of Millburn, N. J., were married recently at Pueblo, Colo. Mr. Tepper is a civil engineer in the employ of the Denver & Rio Grande R. R.

Mr. George R. Dudley, a contractor on the construction work at the Massachusetts School for the Feeble Minded at Baldwinsville, Mass., was struck by a piece of rock from a dynamite blast Sept. 7, sustaining a probably fatal fracture of the skull.

Mr. J. S. Turner, General Sales Agent of the Standard Coupler Co., will become a sales agent of the Pressed Steel Car Co. on Sept. 19. Mr. Turner will be connected with the New York office and will travel in the territory assigned to the Eastern District.

Mr. David M. Duller has been appointed Chief Civil Engineer of the American Rice Cereal Co., of Kansas City, Mo., and San Antonio, Tex., and the firm of Shutts & Duller, Civil Engineers, of Lake Charles, La., of which he was a member, has been dissolved.

The Society of Chemical Industry has conferred its medal upon Ira Remsen, President of John Hopkins University. This medal is awarded by the society once in every two years for conspicuous service rendered to applied chemistry by research, discovery, invention or improvements in processes.

Prof. Augusto Ramos, of the Polytechnic Institute at San Paulo, Brazil, is in this country to investigate the operation of filtration plants, at the request of Brazilian Government. He was recently at Rensselaer examining the plant of the Rensselaer Water-Works Co.

Mr. W. G. Kirchoffer, Consult. Engr., Mem. W. Soc. C. E., formerly of Baraboo, Wis., is now located at Madison, Wis., with offices in the Vroman Bldg. Mr. Kirchoffer is the engineer for the proposed water-works and sewers at Kiel, Wis., noted in this week's paper.

Mr. T. E. Calvert, General Superintendent of the Chicago, Burlington & Quincy Ry. (Lines West of the Missouri River), has been appointed Chief Engineer of the entire system. Mr. W. L. Breckenridge and Mr. I. S. P. Weeks continue as Chief Engineers of the Lines East and West of the Missouri River, respectively.

Mr. F. Sejersted, Manager of the Holmenkollen Electric Railway of Christiania, Norway, is on a visit to this country, as the representative of the Norwegian Government. He proposes to study the application of electricity to railway service here as bearing on the proposed conversion of the Government roads of Norway from steam to electricity.

Mr. William H. Nichols, President of the General Chemical Co. and the Nichols Chemical Co., was elected President of the Society of Chemical Industry at its recent meeting in New York. He is the second American that has held this office. Mr. Nichols graduated from the Polytechnic Institute of Brooklyn in 1868, and from New York University in 1870 with the degree of B. S. He secured the degree of M. S. from the latter institution in 1873.

OBITUARY.

C. Hugo Trik, Assistant Engineer in the Bureau of Surveys of Philadelphia, Pa., died at his home in Germantown, Pa., Sept. 5, of typhoid fever.

Frederick Crosswell Rowland, of F. C. & A. E. Rowland, Hydraulic and Marine Engineers, New Haven, Conn., died in that city, Sept. 9, aged 60 years.

Philip W. Moen, formerly General Manager of the Washburn & Moen Wireworks, and later Vice-President and Director of the American Steel & Wire Co., died at his summer home in Shrewsbury, Mass., Sept. 12. He was 47 years old.

Saly Raunheim, a well-known mining engineer, with offices at 290 Broadway, New York, died suddenly at his home in that city, Sept. 9. Mr. Raunheim was born at Frankfort-on-the-Main, Germany, in 1838, and was educated at Heidelberg and Frieberg.

ENGINEERING SOCIETIES.

COMING MEETINGS.

INTERNATIONAL ELECTRICAL CONGRESS.
Sept. 12 to 16. At St. Louis, Mo. Secy., A. E. Kennelly, Harvard University, Cambridge, Mass.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Sept. 14 to 21. Annual convention at Duluth, Minn., and Houghton, Mich. Secy., R. W. Raymond, 99 John St., New York.

AMERICAN ELECTRO-CHEMICAL SOCIETY.
Sept. 16. Joint meeting with the Deutsche Bunsen Gesellschaft and the Faraday Society, at St. Louis, Mo. Secy., S. S. Sadtler, 39 S. Tenth St., Philadelphia.

INTERNATIONAL ENGINEERING CONGRESS.
Oct. 3 to 8, 1904. Held at St. Louis, Mo., under the auspices of the American Society of Civil Engineers. Secy., Chas. Warren Hunt, 220 W. 57th St., New York.

AMERICAN BOILER MANUFACTURERS' ASSOCIATION.
Oct. 4, 5, 6, 1904. Annual convention at St. Louis, Mo. Secy., J. D. Farasey, Forest St. and Erie Ry., Cleveland, O.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENTS.
Oct. 4, 5, 6, 1904. Annual meeting at St. Louis, Mo. Secy., G. W. Tillson, Municipal Building, Brooklyn, N. Y.

AMERICAN STREET RAILWAY ASSOCIATION.
AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.
STREET RAILWAY ACCOUNTANTS' ASSOCIATION.
Oct. 10 to 15, 1904. Annual meetings at St. Louis, Mo.

RAILWAY SIGNAL ASSOCIATION.
Oct. 11, St. Louis, Mo. Secy., B. B. Adams, 83 Fulton St., New York.

ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18, 19, 20. Annual meeting at Chicago. Secy., S. F. Patterson, Concord, N. H.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19, 20, 21, 1904. Annual meeting at Washington, D. C. Secy., A. E. Forstall, 58 William St., New York, N. Y.

IRON AND STEEL INSTITUTE (Great Britain).
Oct. 24 to 28, 1904. Annual meeting at New York City. Secy., B. H. Brough, 28 Victoria St., London, S. W.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS.
Dec. 6, 1904. Annual meeting at New York City. Secy., F. R. Hutton, 12 West 31st St., New York.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 15 to 17, 1904. Annual meeting at Washington, D. C. Secy., Glenn Brown, Washington, D. C.

ENGINEERS' CLUB OF CINCINNATI.—The first meeting of the season is scheduled for the evening of Sept. 15, when Mr. J. A. Lilly will present a paper on "Paints and Painting." Secy., C. H. Meeds, P. O. Box 333, Cincinnati, O.

ENGINEERS' CLUB OF PHILADELPHIA.—A meeting of the club will be held on Saturday evening, Sept. 17, when Mr. Henry Leffmann will read a paper on "George Washington as an Engineer." Secy., J. O. Clarke, Philadelphia, Pa.

WESTERN SOCIETY OF ENGINEERS.—The first meeting of the autumn season was held Sept. 7. There was no regular paper, but a general discussion was started on the subject of Fireproof Floor Construction and the fireproofing of steel buildings.

NEW YORK RAILROAD CLUB.—The club holds its first meeting of the season on the evening of Friday, Sept. 16, 1904, at Carnegie Hall, 154 West 57th St., New York City. Mr. Gustav Lindenthal will read a paper on "Flange Wear and Side-bearing Trucks." Secy., H. D. Vought, 62 Liberty St., New York.

INTERNATIONAL GEOGRAPHIC CONGRESS.—The eighth International Geographic Congress convened in Washington, D. C., on Sept. 8, under the presidency of Commander Robert E. Peary, the noted seeker after the North Pole. The sessions of Sept. 8 and 9 were held in Washington, and on Sept. 13 they were continued in New York City.

AMERICAN MINING CONGRESS.—The seventh annual meeting was held at Portland, Ore., Aug. 22 to 24, but related mainly to mining laws and administration. Mr. F. H. Newell, M. Am. Soc. C. E., Chief of the U. S. Reclamation Service, presented a paper dealing with the relation of irrigation to mining, and Mr. Gifford Pinchot, U. S. Bureau of Forestry, discussed the relations of public lands and timber resources to mining development. A resolution was adopted advocating the creation of a department of mines as a branch of the general government. Mr. J. H. Richards was re-elected President, and it was voted to establish permanent headquarters at Denver, Colo. The next meeting will be held at El Paso, Tex.

AMERICAN RAILWAY MECHANICAL AND ELECTRICAL ASSOCIATION.—It has been suggested that the membership of the society, now open only to "the heads of mechanical and electrical departments of railway companies," be thrown open also to the heads of Way Departments. The executive committee has now given notice that an amendment to this effect will be submitted to the association at the next meeting (St. Louis, Mo., Oct. 10 to 12, 1904). The secretary of the association is Mr. W. Mower, 12 Woodward Ave., Detroit, Mich.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The first regular meeting of the season was held on the evening of Sept. 7, 1904, at the society's house, 220 West 57th St., New York City. Two papers were read: "The Installation of a Pneumatic Pumping Plant," by Mr. A. H. Diamant, and "Some Notes on the Creeping of Rails," by Mr. S. T. Wagner. The former paper described the work of putting in a Harris air-displacement pumping plant at the east end of the Croton Aqueduct tunnel under the Harlem River at New York City. The plant is intended to clear the tunnel and its shafts of water whenever necessary for inspection, etc.; it had to be installed in a shaft filled with water, about 330 ft. deep. The air tanks and piping were erected in successive stages, beginning with the bottom, that is, the tanks, and lowering the whole into the shaft gradually as the successive sections of piping were added.

The paper of Mr. Wagner on Creeping of Rails detailed a series of observations made on the lines of the Philadelphia & Reading Ry., at a number of points representing widely differing conditions as to grades, traffic, and nature of sub-soil. A very neat method was used for systematizing the work of observation. The results are given in full in the paper, as are also the conclusions. But the latter are not very complete, and in reality are merely approximate confirmation of previously-accepted ideas on the subject. The conclusions are:

Creeping of the soil is in the direction of traffic. The right-hand rail showed only very slight indications of creeping more than the left, although all engines on the line have the right crank leading.

The effect of gradients is small. There is a slight tendency toward greater creeping down grade.

The creeping is decidedly greater on embankment carried over swampy ground than where there is solid ground.

More creeping is observed on imperfectly maintained track than on first-class track.

The paper was discussed in a number of written communications, but these gave little additional observations of systematic nature. The generally accepted explanation

of creeping was the wave-motion of the track caused by the motion of the train; there was one dissent from this, however, in favor of explaining the creeping by the effect of the forward blows which the car-wheels deliver against the joints, combined with the tractive action on the track produced by the rolling resistance of the car-wheels (assuming the engine to hold down the track, thereby forming a fixed point). The paper and the discussion brought out clearly that, to secure definite knowledge of the phenomenon of creeping, systematic observations like those of Mr. Wagner must be made in many places and continued over long periods of time.

RECEPTION OF MEMBERS OF THE INSTITUTION OF CIVIL ENGINEERS BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS.—On Tuesday morning last a delegation of about one hundred members of the Institution of Civil Engineers, of England, was officially received by the President, Past Presidents, officers and members of the American Society of Civil Engineers at the Society's House. When all had arrived, Mr. Charles Hermann, the President of the American Society, formally welcomed the English Engineers in a brief but well-chosen address; dwelling upon the great work done by the Engineers of England in advancing the material interest of mankind under every sun, and pointing out some of the conditions which controlled the execution of similar work in the United States. On the part of the guests this address was replied to by Sir William Henry White, K. C. B., etc., now President of the Institution of Civil Engineers, and one of the world's greatest naval architects. Sir William claimed all the Engineers before him as of one kin, having a common language and literature, common tradition, and in a large part a common ancestry; and he truthfully added that Civil Engineering knew no country and was confined to no set limits of territory. He called attention to the fact that in accepting this invitation of the American Society the Institution was breaking a tradition as old as the Institution itself; that while the English Society had often acted as the host to kindred societies of various nations, this was the first time in its history that the Institution itself had played the part of guest—and, he added, they had already learned from their brief experience in this country that there was as much pleasure in receiving as in giving. Upon the platform sat the venerable but vigorous Mr. Charles Haswell, and Sir William with deep feeling referred to his own pleasure in once again meeting this veteran among Engineers: a man who had witnessed Fulton's experiments in steam navigation, and who—as the first chief of the American steam navy, had attained prominence in his profession before he, or the great majority of those before him, had been born. Sir William closed his remarks by reading the heartfelt greetings to the American Society of Mr. James Forrest, for so many years the Secretary of the Institution of Civil Engineers. Mr. Charles Haswell, being called upon, thanked all the Engineers present for their kindly greeting, but on the score of failing health, excused himself from any longer address.

After a lunch had been served the majority of those present were invited by Mr. William Barclay Parsons, Chief Engineer of the New York Rapid Transit Co., to take a trip through the nearly completed subway. The party entered a special train at the 59th St. station, and proceeding to the City Hall station, the visitors were taken to the City Hall and introduced to Mayor McClellan, who extended to them the hospitality of the City. The party then returned to the subway and traversed its completed length as far as 146th St. Meanwhile the ladies accompanying the English Engineers were the guests of a number of the wives of the American Engineers; they were taken in electric broughams to Central Park and to a lunch at Claremont.

ENGINEERING SCHOOLS.

UNIVERSITY OF PENNSYLVANIA.—Mr. Joseph Wharton, the founder of the Wharton School of Finance and Commerce, of the University of Pennsylvania, has recently raised the endowment of the school to $500,000, and in consequence of the larger fund of resources, the university has reorganized the school and has established a series of new courses which mark a distinct step forward in the educational policy of our large universities. A large number of specialized business courses are to be offered at the opening of the college year on Sept. 30, with a view to fitting young men directly for their prospective business careers. In the first two years the work includes Economics, Advanced Physical, Economic and Commercial Geography, Money and Credit, Banking, Advanced Accounting, Commercial Law, Industrial Processes and Field Work in Industry, together with English Literature, Modern Languages, electives in Natural Sciences, History and other subjects of university grade.

In the third year the choice of business courses widens. There are now open courses in Industrial Management, which deal with the methods of collection and marketing of raw material, manufacturing and merchandising; Insurance (a general study of the subject); Railway Transportation, in which a knowledge is gained of the railway system and service, of the practice and principles of rate-making, of the physical and financial characteristics of the leading railway systems of the United States, of foreign railway practice and of the legal and business relations between shipper and carrier; Auditing, involving the interpretation of partnership and corporation accounts and reports; Corporation Finance, a study of the methods of promoting, capitalizing and administering business corporations, and Public Finance, a study of taxation and of the activities of public bodies in borrowing and financial administration.

In Transportation, following the general course in the junior year, and also founded upon the preliminary work in commerce, the student is offered courses in the Organization and Operation of the Railway, in Rates and Traffic and in Railroad Accounting. During this year courses are also offered in Fire, Life, Marine and miscellaneous forms of Insurance. A large part of the work of instruction is given by insurance experts by means of lectures on special topics. During the senior year courses are offered in Industrial Management, including manufacturing costs and depreciation, labor management, factory location and equipment, factory organization, advertising and sales; also courses on Banking, including advanced commercial law and the law of bills and notes, commercial and bank credit, bank organization and management, investments, foreign banking systems and domestic and foreign exchange.

The work of the first two years is therefore broader in character in order to offer a foundation for the specialization which is encouraged in the latter half of the course. It is expected that the student will have chosen his prospective occupation by the time that this preliminary work has been completed and will then be ready to concentrate his studies in the chosen field.

In connection with the courses in Industrial Processes, Industrial Management, Transportation, Banking and Finance, many business institutions are visited and their methods are studied. A large number of business men are called on to assist in the work of instruction by means of special lectures in their respective fields.

CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

RURAL ENGINEERING.—U. S. Civil Service Commission, Washington, D. C., from whom further information can be obtained, has announced an examination in Rural Engineering, which includes irrigation and road-making, to be held at various places throughout the country on Oct. 19.

ENGINEERS.—New York State Civil Service Commission will hold a general examination Oct. 8 to secure eligibles for the following positions: Assistant civil engineer; electrical engineer, state architect's office; heating engineer, state architect's office; assistant state geologist; marine engineer. Applications for the examinations must be made on or before Oct. 3. Further information may be obtained by addressing Charles S. Fowler, Chief Examiner of the Commission, at Albany, N. Y.

SUB-INSPECTOR.—An examination will be held at Naval Torpedo Station, Newport, R. I., Sept. 27, to fill the position of Sub-inspector at U. S. Naval Coal Depot, Narragansett Bay, R. I. The duties of the position will be surveying and inspection of concrete floors, steel work, riveting, corrugated iron work, painting, etc. The examination will be practical in character and applications should be addressed to the Inspector of Ordnance in Charge, Naval Torpedo Station, Newport, R. I., and must be received by him on or before Sept. 26. The pay is $3.04 per day.

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Sept.				
*15	Irrigation canal	Montrose, Colo	P. & S.	8- 4
17	Electric capstans	Wash., D. C.	S.	9- 1
17	Underground cables	Wash., D. C.	S.	9- 1
17	Concrete drain	Wash., D. C.	S.	9- 1
17	Road	Eulalia, Pa	S. & B. S.	9- 1
17	Road	Sweden, Pa	S. & B. S.	9- 1
*21	Water pipe	Panama	S.	9- 8
*22	Telephone line	Montrose, Colo	S.	8-18
24	Frame dwellings	N. Orleans, La.	S.	9- 1
24	Steel work	Washington, D. C.	S.	9- 8
26	Roads	Cooper, Pa	S. & B. S.	9- 1
27	Roads	Erie, Pa	S. & B. S.	9- 8
*27	Rep'r'g jetties	New London, Ct.	S.	9- 8
*27	Water mains, sewers	Kiel, Wis.	P. & S.	9- 8
Oct.				
1	Floating pile driver	Wash., D. C.	S.	9-15
*5	Gunnison tunnel	Montrose, Colo	P. & S.	8- 4
8	Brick building	New Orleans, La.	S.	9-15
15	Foundry	Charleston, S. C.	S.	9-15
15	Dry-dock	Washington, D. C.	S.	9- 1
15	Towboat	Cuba	S.	8-18
Dec.				
*1	Bridge	Manila, P. I.	P., S. & B. S.	7-28

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDIN[G].

Bids close. Work. Place.

LIGHT, HEAT AND POWER PLANTS.

Sept. 15. Electric light plant, Searcy, Ark........
Sept. 23. Motors, etc., Dayton, O........
Sept. 26. Power franchise, Suisun, Cal........
Oct. 4. Street lighting, etc, Tamaqua, Pa........

BRIDGES.

Sept. 15. Bridge, Boston, Mass........
Sept. 17. Bridge, steel, Richwood, W. Va........
Sept. 19. Steel bridge, East Greenville, Pa........
Sept. 20. Stone and iron bridge, Crown Point, Ind
Sept. 20. Bridge, Harrisburg, Pa........
Sept. 20. Bridge, Nebraska City, Neb........
Sept. 20. Bridge, York, Pa........
Sept. 20. Bridge, Versailles, Ind........
Sept. 20. Bridge, Boise, Idaho........
Sept. 21. Bridges, Cleveland, O........
Sept. 26. Bridges, Fargo, N. Dak........
Sept. 26. Bridge, steel, Chesterfield, Va........
Sept. 27. Bridges, Indianapolis, Ind........
Sept. 29. Bridge, steel, Green Bay, Wis........
Oct. 1. Bridge, Oshkosh, Wis........Sept.
Advertised, Eng. News, Sept. 15 and 22.
Oct. 4. Bridge, Conconully, Wash........Sept.
Oct. 5. Bridge, iron, Kittanning, Pa........Sept.
Nov. 4. Bridge, New Orleans, La........Sept.
Advertised, Eng. News, Sept. 15 to Oct. 7.
Dec. 1. Bridge superstructure, Manila, P. I........July 28
Advertised, Eng. News, July 28 to Dec. 1.

BUILDINGS.

Sept. 15. Post office, Grand Haven, Mich........Aug. 4
Advertised, Eng. News, Aug. 4 and 11.
Sept. 15. Hotel, Montgomery, Ala........Sept. 1
Sept. 15. School, Little Rock, Ark........Sept. 1
Sept. 15. Armory repairs, New York, N. Y........Sept. 8
Sept. 15. Court house, Bellaire, Mich........Sept. 8
Sept. 15. Building, Columbus, O........Sept. 8
Sept. 15. Hospital, Annapolis, Md........Sept. 8
Sept. 16. Dock buildings, New York, N. Y........Sept. 8
Sept. 16. Market house, Paducah, Ky........Sept. 8
Sept. 16. Post office, Marblehead, Mass........Aug. 18
Sept. 17. Schools, etc., Oakland, Cal........July 28
Sept. 17. Steam heating, Ft. Leavenworth, Kan..Sept. 8
Sept. 17. Electric fixtures, Willets Point, N. Y....Sept. 15
Advertised, Eng. News, Sept. 15.
Sept. 19. Hospital, Sumter, S. C........Sept. 15
Sept. 19. School work, New York, N. Y........Sept. 8
Sept. 19. Brick buildings, Ft. Assinniboine, Mont..Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 19. Wiring system, Greenville, Tenn........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Out-building, Washington, D. C........Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 1.
Sept. 20. Library, Cincinnati, O........Sept. 1
Sept. 21. Electric wiring, Nashville, Tenn........Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Sept. 21. Post exchange, Ft. Robinson, Neb........Sept. 8
Sept. 21. Jail, Sutton, W. Va........Sept. 8
Sept. 21. City hall repairs, New York, N. Y........Sept. 15
Sept. 21. City building, Chicago, Ill........Sept. 15
Sept. 22. Aviary, New York, N. Y........Sept. 15
Sept. 22. Library work, New York, N. Y........Aug. 18
Sept. 23. Library, Yankton, S. Dak........Sept. 8
Sept. 23. Heating plant, Indianapolis, Ind........Sept. 15
Sept. 24. Heating & ventilating, Washington, D. C. Sept. 15
Sept. 24. High school, Orange, Cal........Sept. 15
Sept. 24. Brick buildings, Alexandria, La........Sept. 8
Sept. 24. Frame dwellings, New Orleans, La........Sept. 1
Sept. 26. Brick addition, Los Angeles, Cal........Sept. 8
Sept. 26. Buildings, Jackson, Miss........Sept. 8
Sept. 26. Stable, etc., Delaware City, Del........Sept. 8
Advertised, Eng. News, Sept. 8 and 16.
Sept. 26. School, Boston, Mass........Sept. 15
Sept. 27. Court house, Wynne, Ark........Sept. 8
Sept. 27. Buildings, Mescalero, N. Mex........Sept. 1
Sept. 29. Buildings, Ft. Leavenworth, Kan........Sept. 8
Sept. 30. Hall, Johnson City, Tenn........Sept. 1
Advertised, Eng. News, Sept. 1 to 22.
Sept. 30. School plans, Oakland, Cal........Aug. 25
Sept. 30. Buildings, Seattle, Wash........Sept. 15
Oct. 1. Court house plans, Manitowoc, Wis........Aug. 18
Oct. 1. School, Somerville, Mass........Sept. 1
Oct. 1. Cut granite, Washington, D. C........Sept. 8
Oct. 5. Post office, Pekin, Ill........Sept. 1
Advertised, Eng. News, Sept. 1 and 8.
Oct. 5. Building addition, San Francisco, Cal...Sept. 15
Oct. 8. Buildings, New Orleans, La........Sept. 8
Oct. 10. Public buildings, Lawton, Okla........Sept. 1
Advertised, Eng. News, Sept. 1 to Oct. 6.
Oct. 12. Post office, Fond du Lac, Wis........Sept. 8
Oct. 15. Brick building, Charleston, S. C........Sept. 15
Oct. 15. Foundry (mfg. plants), Charleston, S. C. Sept. 15
Oct. 6. School, Greenville, Miss........Sept. 15
Advertised, Eng. News, Sept. 15 and 22.
Oct. 8. Brick building, New Orleans, La........Sept. 15
Nov. 1. School plans, etc., Birmingham, Ala........Sept. 15
Nov. 2. Ventilating apparatus, Washington, D. C. Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Nov. 7. Ventilating apparatus, Washington, D. C. Sept. 15
No date. Building materials, Mohave City, Ariz...Sept. 8

WATER SUPPLY AND IRRIGATION.

Sept. 15. Canals, etc., Montrose, Colo........Aug. 4
Advertised, Eng. News, Aug. 4 to Sept. 15.
Sept. 17. Water pipe, Montgomery, Ala........Sept. 8
Sept. 19. Water pipe, Creemore, Ont........Sept. 15
Sept. 19. Storage reservoir, Newton, N. J........Sept. 15
Sept. 20. Pipe, pump, etc., South Milwaukee, Wis. Sept. 15
Sept. 20. Water-works, Hastings, Pa........Sept. 15
Sept. 20. Water-works, Hawkeye, Ia........Sept. 15
Sept. 21. Cast-iron pipe, Washington, D. C........Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 21. Pump, Canal Dover, O........Sept. 1
Sept. 22. Water mains, reservoir, Waynesburg, O..Sept. 15
Sept. 24. Water-works improvements, Astoria, Ore. Sept. 1
Sept. 26. Water system, Denver, Colo........Sept. 8
Sept. 26. Water-works, Grimsby, Ont........Sept. 15
Sept. 26. Filtration plant, etc., Wilmington, Del...Sept. 15
Sept. 27. Water mains, sewers, etc., Kiel, Wis....Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 29. Water-works and sewers, Emporia, Va..Sept. 8
Advertised, Eng. News, Sept. 8 to Sept. 29.
Sept. 29. Water pipe, New York, N. Y........Sept. 15
Sept. 30. Reservoir, Fort Meade, S. Dak........Sept. 15
Advertised, Eng. News, Sept. 15 and 22.
Sept. 30. Laying pipe, Cincinnati, O........Sept. 8
Oct. 1. Water-works, Savannah, Ga........Sept. 8
Oct. 1. Water-works, Chili........Aug. 25
Oct. 5. Tunnel, etc., Montrose, Colo........Aug. 4
Advertised, Eng. News, Aug. 4 to Oct. 6.
Oct. 10. Water-works, Maumee, O........Sept. 15
Advertised, Eng. News, Sept. 15.
Nov. 1. Water-works, etc., Summerside, P. E. I..Aug. 25
Nov. 9. Pumping machinery, New Orleans, La....Sept. 1
Advertised, Eng. News, Sept. 1 to Nov. 10.

SEWERAGE.

Sept. 15. Sewers, Havre, Mont....Sept. 8
Sept. 16. Sewers, Lorain, O....Sept. 1
Sept. 16. Sewer, Omaha, Neb....Sept. 15
Sept. 16. Sewers, etc., Altoona, Pa....Sept. 15
Sept. 17. Sewers, Scranton, Pa....Sept. 15
Sept. 17. Sewers, Morrison, Ill....Sept. 15
Sept. 17. Sewers, Ft. Leavenworth, Kan....Sept. 8
Sept. 19. Cement septic tank, Los Angeles, Cal....Sept. 8
Sept. 19. Sewer, Richmond, Ind....Sept. 8
Sept. 19. Sewer, Shreveport, La....Sept. 8
Sept. 19. Sewer, Lockport, N. Y....Sept. 15
Sept. 19. Sewer extension, Flint, Mich....Sept. 15
Sept. 19. Sewer, Los Angeles, Cal....Sept. 15
Sept. 20. Septic tank, etc., Tallahassee, Fla....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 15.
Sept. 20. Sewers, Oneida, N. Y....Sept. 15
Sept. 20. Sewers, Dayton, O....Sept. 15
Sept. 20. Sewer, Youngstown, O....Sept. 15
Sept. 20. Sewers, Neodesha, Kan....Sept. 15
Sept. 21. Sewers, New York, N. Y....Sept. 15
Sept. 21. Sewers, Brooklyn, N. Y....Sept. 8
Sept. 22. Sewers, Cincinnati, O....Sept. 8
Sept. 22. Sewers, Morton Park, Ill....Sept. 15
Sept. 26. Sewer, Wabash, Ind....Sept. 15
Sept. 26. Sewers, New York, N. Y....Sept. 15
Sept. 26. Sewers, Muncie, Ind....Sept. 15
Sept. 26. Sewer, Lafayette, Ind....Sept. 15
Sept. 30. Sewers, Omaha, Neb....Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Oct. 1. Sewer system, Savannah, Ga....Sept. 8
Oct. 3. Sewers, Topeka, Kan....Sept. 8
Oct. 3. Sewers, Norristown, O....Sept. 15
Nov. 1. Sewerage, Summerside, P. E. I....Aug. 25

STREETS AND ROADS.

Sept. 15. Paving, brick, Barnesville, O....Aug. 11
Sept. 15. Paving, etc., Marysville, O....Sept. 1
Sept. 15. Macadamizing, Green Bay, Wis....Sept. 1
Sept. 16. Paving, Lorain, O....Aug. 25
Sept. 16. Macadamizing, New York, N. Y....Sept. 8
Sept. 16. Road, Putnam, Conn....Sept. 15
Sept. 17. Paving, Sycamore, Ill....Sept. 15
Sept. 17. Road, Sonora, Cal....Sept. 8
Sept. 17. Road, Sweden, Pa....Sept. 1
Sept. 17. Road, Eulalia, Pa....Sept. 1
Sept. 19. Paving, etc., Medina, O....Sept. 8
Sept. 19. Grading, Brigham City, Utah....Sept. 8
Sept. 19. Sidewalks, Miles City, Mont....Sept. 8
Sept. 19. Macadamizing, Oakland, Cal....Sept. 15
Sept. 19. Paving, vitrified brick, Bay City, Mich....Sept. 15
Sept. 19. Paving, Decatur, Ill....Sept. 15
Sept. 19. Paving, asphalt, San Mateo, Cal....Sept. 15
Sept. 19. Sidewalks, cement, Richmond, Ind....Sept. 15
Sept. 19. Grading, Boston, Mass....Sept. 15
Sept. 19. Paving, Elgin, Ill....Sept. 15
Sept. 20. Sidewalks, Cincinnati, O....Sept. 1
Sept. 20. Macadamizing, Prairie Depot, O....Sept. 1
Sept. 20. Paving, vitrified block, Findlay, O....Sept. 15
Sept. 20. Paving, Long Island City, N. Y....Sept. 15
Sept. 20. Sidewalks, cement, Shelbyville, Ind....Sept. 15
Sept. 20. Paving, Youngstown, O....Sept. 15
Sept. 21. Paving, Columbus, O....Sept. 15
Sept. 21. Road, Madison, Conn....Sept. 15
Sept. 21. Paving, Cincinnati, O....Sept. 15
Sept. 22. Paving, brick, Wellington, O....Sept. 15
Sept. 24. Sidewalks, Elyria, O....Sept. 15
Sept. 24. Roads, Petersburg, Ind....Sept. 15
Sept. 26. Roads, Cooper, Pa....Sept. 1
Sept. 27. Road work, Erie, Pa....Sept. 8
Sept. 28. Paving, Cincinnati, O....Sept. 8
Sept. 28. Paving, Hoboken, N. J....Sept. 8
Sept. 28. Paving, asphalt, Brooklyn, N. Y....Sept. 15
Sept. 29. Pikes, Bellaire, O....Sept. 8
Sept. 30. Sidewalks, Grand Island, Neb....Sept. 15
Oct. 1. Road repairs, Cincinnati, O....Sept. 15
Oct. 3. Macadamizing, Defiance, O....Sept. 15
Oct. 3. Road, Yuma, Ariz....Aug. 11
Oct. 5. Macadamizing, Cincinnati, O....Sept. 15
Oct. 7. Grading, Ft. Leavenworth, Kan....Sept. 15
No date. Paving, brick, Morris, Ill....July 21
Advertised, Eng. News, July 21 to Oct. 13.
No date. Sidewalks, concrete, Mansfield, La....Sept. 15

MISCELLANEOUS CONTRACTS.

Sept. 15. Railway grading, Norfolk, Va....Sept. 8
Sept. 17. Dredging, New London, Conn....Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 22.
Sept. 17. Electric capstans, Washington, D. C....Sept. 1
Sept. 17. Underground cables, Washington, D. C....Sept. 1
Sept. 17. Concrete drain, Washington, D. C....Sept. 1
Sept. 20. Garbage plant, Crafton, Pa....Sept. 15
Sept. 21. Levee work, Shreveport, La....Sept. 15
Sept. 21. Stone wall, Chicago, Ill....Sept. 1
Sept. 21. Crane, Washington, D. C....Sept. 8
Sept. 22. Telephone system, Montrose, Colo....Aug. 18
Advertised, Eng. News, Aug. 18 to Sept. 29.
Sept. 22. Harbor improvement, Galveston, Tex....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 22. Library stack work, New York, N. Y....Aug. 11
Sept. 24. Dredging, Mobile, Ala....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 22.
Sept. 24. Steel work, Washington, D. C....Sept. 8
Sept. 24. Dike and concrete wall, Painted Post, N. Y....Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 24. Remodeling wharf, Fort Mott, N. J....Sept. 8
Advertised, Eng. News, Sept. 8 and 15.
Sept. 26. Drainage canal, New Iberia, La....Sept. 15
Sept. 26. Drain, Hackensack, N. J....Sept. 15
Advertised, Eng. News, Sept. 15 and 22.
Sept. 27. Ditch, levees, etc., Columbus, O....Sept. 15
Sept. 27. Repairing jetties, New London, Conn....Sept. 8
Advertised. Eng. News, Sept. 8 to Sept. 29.
Sept. 27. Wrought iron, etc., Washington, D. C....Sept. 8
Sept. 27. Machine tools, Washington, D. C....Sept. 1
Sept. 27. Dam, Cincinnati, O....Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Sept. 28. Ditch, St. Cloud, Minn....Sept. 8
Sept. 29. Brick, Portland cement, New York, N. Y....Sept. 15
Sept. 30. Dredging, Portland, Me....Sept. 8
Sept. 30. Steel lock gates, Louisville, Ky....Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Oct. 1. Cut granite, Washington, D. C....Sept. 1
Advertised, Eng. News, Sept. 1 to Sept. 29.
Oct. 1. Telephone service, Toronto, Ont....Aug. 25
Advertised, Eng. News, Aug. 24 to Sept. 15.
Oct. 1. Earthwork, New Orleans, La....Sept. 15
Oct. 1. Floating pile driver, Washington, D. C....Sept. 15
Oct. 4. Lamps, steel, etc., Washington, D. C....Sept. 15
Oct. 6. Steam shovels, etc., Washington, D. C....Sept. 15
Advertised, Eng. News, Sept. 15 to Oct. 6.
Oct. 6. Engines, generators, etc., West Point, N. Y....Sept. 8
Advertised, Eng. News, Sept. 8 to Oct. 6.
Oct. 6. Boiler, Wilmington, N. C....Sept. 8
Advertised, Eng. News, Sept. 8 to Oct. 6.
Oct. 11. Machine tools, Washington, D. C....Sept. 15
Oct. 11. Dredging, Passaic, N. J....Sept. 15
Advertised, Eng. News, Sept. 15 to Oct. 13.
Oct. 12. Embankment, Chicago, Ill....Aug. 18
Oct. 15. Tug boat, Cuba....Aug. 18
Oct. 15. Plans for harbor, Sweden (Foreign)....April 21
Oct. 15. Completing dry-dock, Washington, D. C....Sept. 1
Oct. 15. Dam, Hendrix, Pa....Sept. 8
Oct. 22. Railway construction, Brazil....Aug. 25
Nov. 10. Docks, moles and forts, Chili....Aug. 18

RAILWAYS.

ARKANSAS.—In fourth annual report of Arkansas Railroad Commission is listed detailed statement of new lines under construction and projected within this state. It gives altogether 48 railroads in course of construction, or to be constructed in different sections of Arkansas, with a mileage of over 2,000. The most important of these is the Memphis and Helena and Louisiana and the White River Railroad, both Iron Mountain lines. Besides these a large number have been incorporated, a few of which have not as yet completed their survey. The Ozark & Cherokee Central contemplates an extension east from Fayetteville to Jasper, in Newton County.

BALTIMORE & OHIO.—Contract has been awarded to C. A. Sims & Co., of Baltimore, for double-tracking a portion of the road on the Wheeling division, between Pittsburg and Wheeling, W. Va.

BINGHAMTON & SOUTHERN.—A. K. Harvey, Engr., has announced that actual work of construction would be started within a month at the southern end of the line. Road will be built from Williamsport, Pa., to Binghamton, N. Y., connecting with the Delaware & Hudson.

CHICO & NORTHERN.—San Francisco press reports state that the company will increase the capital stock from $1,000,000 to $2,000,000 for purpose of extending and improving the road.

EL PASO MOUNTAIN PARK & OKLAHOMA CENTRAL.—R. L. Kelly, Mountain Park, Okla., chief promoter of this road, states, according to press reports, that arrangements have been completed for building the road from Oklahoma City to Chickasha, Ind. T. The plans and profiles of the route are complete from Mountain Park to Oklahoma City, Okla., which will be the first section of the road constructed. The line parallels the Rock Island to Anadarko, from Chickasha, where it turns southwest to Mountain Park, located at the western base of the Wichita Mountains. It is the plan to build the road northeast to a connection with the Missouri Pacific at Wagoner, Ind. T., and finally northeast to Springfield and from Jefferson City, Mo., into St. Louis.

GOLD STREAM & TANANA.—We are informed that this company will build 10-mile line in Alaska. Falcon Joslyn is Pres., Chenoa, Alaska (not a post office).

GULF, HUTCHINSON & NORTHWESTERN.—T. G. Elbury, Ch. Engr., Hutchinson, Kan., has finished survey from Atwood to Stockton, Kan., and is preparing estimates. Eugene Tilleux, Pres., is quoted by local papers as saying that contract for grading and construction will be let this month. Surveys will be made later from Stockton to Hutchinson. There are several routes proposed. Bonds will be voted and a bonus asked of all counties through which road will run.

HAMPTON & YORKTOWN.—Company will, it is reported, immediately apply for a charter to build its proposed line from Hampton to Yorktown, Va., 23 miles, with extensions to Newport News, New Kent, King and Queen, and Gloucester Counties. Motive power will be either steam or electricity. Directors are H. P. Barney, F. W. Darling, Robert S. Hudgins, Harry Libbey, Hunter R. Booker, Albert Howe and others.

ILLINOIS TERMINAL.—John Scott & Sons have contract for about $140,000 worth of work to be done from Cotter's hill about four miles toward Edwardsville. A new track to connect with the Madison mines will be laid. T. C. Moorshead, Alton, Ill., is Ch. Engr.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—It is probable that the Nashville, Chattanooga & St. Louis Railway will construct a branch line from Woodland Mills, Tenn., to Columbus, Ky., in the near future. A survey has been made, but at just what time work will begin is not known, as the officers have not decided definitely whether or not the new line will be built. It is understood that this is but one of many additions that are planned to be added to property of Nashville, Chattanooga & St. Louis Railway within the next year.

NEW YORK.—Arbuckle Bros., the coffee merchants of Brooklyn, are reported back of plan to build a terminal at foot of Jay and Bridge Sts., in Brooklyn. The property of the Poillon estate, beginning at the east line of Bridge St. and extending to the Kings County Gas & Electric Co.'s power house, has been acquired, with a stretch of water front 700 ft. along the river and 600 ft. deep. Etimated cost, $1,500,000. There is to be a slip at the northeast corner of property, adjoining the electric power house, which will receive the biggest carfloats now in service. From this slip will run a network of tracks, several miles in all.

NEW YORK CENTRAL & HUDSON RIVER.—It is reported that this company has signed a contract with the Ontario Power Co. by which the railroad company agrees to buy the entire output of the power company for a term of years, probably 25. Ontario Power Co. is controlled and chiefly owned by Edmund Hayes and John J. Albright. Its general manager is Gen. Francis V. Greene. For several years an immense plant has been under construction at Niagara Falls, on the Canadian Park reservation.

QUEBEC, WESTERN & ATLANTIC.—Almar F. Dickson, Consul to Canada, at Gaspé Basin, Que., states in his reports that this railway, organized in England some time ago, has obtained a Dominion charter and subsidy of $6,400 a mile from the Federal Government; also a grant of land of 4,000 acres a mile from the legislature of the Province of Quebec, with a proviso that the land must be sold to bona fide settlers at a maximum price of $2 an acre. The road is to run from a point near Gaspé village to a point at or near Causapcal, connecting there with the Intercolonial Railway, about 170 miles in length. Same company has undertaken to build the remaining portion of the line along the Gaspé coast, a distance of about 100 miles, to connect with the existing Atlantic & Lake Superior Ry., in operation between Matapedia and Paspebiac. It will cross five or six rivers at their mouths, necessitating the erection of costly bridges. Company's charter demands that it build this section simultaneously with the Quebec, Western and Atlantic section under penalty of forfeiture of charter. No work has been done on either section so far, except surveys. Arrangements will be made soon, it is believed, to give out contracts and commence operations.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

QUEEN & CRESCENT.—It is reported that Cincinnati Southern Ry. Company's shops will be removed from Ludlow, Ky., and Chattanooga, Tenn., to Somerset, Ky. M. Walsh is Supt. Bridges and Bldgs.

SAN PEDRO, LOS ANGELES & SALT LAKE.—It is reported that permanent terminal for this company will be at Caliente, Cal. $200,000 will be appropriated for permanent structures, including 12 dwellings, a 17-stall roundhouse, a station, a standard 70,000-gal. tank, oil house, 70-ft. turntable, an artificial ice plant and other structures. H. Hawgood, Los Angeles, Cal., is Ch. Engr.; R. E. Wells, Salt Lake City, is Gen. Mgr.

SANTA FE CENTRAL.—It is reported that this company has reorganized at El Paso, Tex., with C. B. Morehead, Pres., and A. B. Fall, Gen. Attorney. Preliminary survey is being made for 100-mile extension from Torrance, N. Mex., to El Paso. W. D. Lee, Santa Fe, N. Mex., is Gen. Mgr.

SCOTT VALLEY.—This company, organized to build from Yreka, Cal., to Etna, a distance of 42 miles, has awarded contract to the E. B. & A. L. Stone Co., of San Francisco, and the New York Construction & Development Co., of Yreka, for the building and grading of proposed road. Joseph Johnston, of San Francisco, is interested in the company.

NEW INCORPORATIONS AND CHARTERS.

CHATTANOOGA & MONTLAKE.—Tenn.—A charter has been applied for by G. W. Nixon, J. P. Kendrick, A. T. Whiteside and others. Company will build from Chattanooga, Tenn., to the mines of the Montlake Coal Co., in Chickamauga Gulch, near Daisy. Mr. Nixon is President of Montlake Coal Co.

HILLSBORO & SOUTHWESTERN.—Ill.—This company has incorporated with a capital stock of $100,000 to construct a steam road from Hillsboro to Alton. Incorporators are: Frank P. Blair and Fred A. Chapman, of St. Paul, Minn.; Alexander W. Crawford, Charles C. Terry, of Girard, and Frank L. McDavid, of Hillsboro, Ill.

LANSING MANUFACTURERS' RY. CO.—Mich.—Company was incorporated to build a belt line 5½ miles long in Lansing, Mich. Capital stock, $100,000. Samuel L. Smith and August Smith, of Detroit; James H. Seager, Houghton; and James B. Seager, S. F. Seager, of Lansing, are organizers. Line will start from Grand Trunk Ry. at Logan St., to connect with the Michigan Central, Pere Marquette and Lake Shore Rys. at North Lansing. Right-of-way is partly secured. Dyer, Jenison & Barry, representing the company, have matter in hand.

PORTLAND, MONTPELIER & HUNTINGTON.—Ind.—Company has incorporated with capital stock of $1,400,000. Incorporators: Andrew Rapp, Levi Huffman, E. F. Pulver, W. F. Sinclair, D. A. Williamson, James West and D. R. Hardman. Headquarters, Montpelier, Ind. Details not given.

WEST VIRGINIA INTERIOR.—W. Va.—Company has been charteerd to build from Steelton, a suburb of New Martinsville, to Salem, via Middlebourne. Capital, $100,000. Judge T. P. Jacobs, of New Martinsville, is said to be interested.

STREET AND ELECTRIC RAILWAYS.

BOSTON, MASS.—The Railway Commissioners have granted a franchise to Blue Hill Street Ry. Co. to build a new street railway along a new parkway which is soon to be built from Blue Hill Reservation to Paul's Bridge, Readville.

NORWICH, CONN.—It is reported that the Consolidated Ry. Co. will begin shortly the construction of an electric railway between Central Village and this city, although it has been stated that this would not be built until spring.

NEWARK, N. Y.—The Rochester, Syracuse & Eastern Electric Railroad Co. was granted a second franchise to construct a street road, with single or double track, along Main and Union Sts. of this village, at the regular meeting of Village Board of Trusteees.

NEW YORK, N. Y.—The State Railroad Commission have given a public hearing in its office in the Whitehall Building on the application of the newly incorporated South Shore Traction Co. for permission to construct a 60-mile trolley road through Suffolk and Nassau Counties, Long Island. James Anderson Hawes and Arthur Hume sign the papers as vice-president and secretary of the company. The proposed route runs from Central Ave. in Jamaica to Rockville Center, to Hempstead, to Oyster Bay, to Babylon, to Amityville, to Islip, to Patchogue and easterly to Carman's River, in the Township of Brookhaven. Much of the line as laid out is through private property.

CLINTON, N. J.—There is a movement on foot to build a trolley line between this place and Frenchtown, connecting other towns along the Delaware. Rev. J. W. McManiman is interested. The Northampton Trolley Co., which is building the line from Easton to Washington, has the matter under consideration, and if project is carried out a line will be built from this place to Washington, connecting High Bridge, Glen Gardner, Junction and Changewater. A branch will also be run to Flemington.

EGG HARBOR CITY, N. J.—Survey has been started for a trolley line between Hammonton and Egg Harbor. The line is to be extended to Absecon, and there to connect with line already in operation.

McKEESPORT, PA.—Plans have about been completed for the erection of a trolley line from McKeesport to Irwin by the Pittsburg & Westmoreland Traction Co. The new company, it is said is being financed by the Union Trust Co., of Pittsburg. Attorneys are now preparing an ordinance asking for a franchise in McKeesport. The right of way from McKeesport to Irwin will be over private property almost the entire distance. The new line will enter McKeesport along Hartman St. to Fifth Ave., where it will connect with the main line of the Pittsburg Railways Co. Cars running direct from Pittsburg to Irwin, it is expected, will be in operation before the first of the year.

PITTSTON, PA.—It is announced that the Laurel Line is going to build a 16-mile loop from Pittston to cross the Susquehanna River, connect with West Pittston, Dorranceton, Wyoming, Maltby, Kingston, Plymouth and Nanticoke, and that the work will be commenced in a short time, that the surveys have been made and that the loop will cost over $3,000,000. The Laurel Line is an electric third-rail railroad and is controlled by the Westinghouse people. It is at present in operation between Scranton and Wilkesbarre.

SOUDERTON, PA.—The Souderton, Skippack & Fairview Electric Ry. Co. will extend their line a distance of 14 miles. The proposed route begins at intersection of Skippack road and Harleysville and Lederachville turnpike, in Lederachville, and thence over Skippack road to its intersection with the Springhouse and Skippack turn-

pike, touching Groff's Mill, Salfordville and Waxall. Here the route follows Springhouse and Skippack turnpike road through Sumneytown to Greenlane, thence over Greenlane and Goshenhoppen turnpike through Red Hill to Pennsburg and East Greenville.

NORFOLK, VA.—The Norfolk City & Suburban Railroad Co., which will operate an electric line between this city and the property of the Wheeling Development Co., near Indian River Gardens, let a contract to the Standard Electric Co. for construction of a line 3½ miles long between the two places. James G. McNeal is president.

HAMPTON, VA.—The Corporation Commission has granted a charter to the Hampton & Yorktown Ry. Co. The capital stock is placed at $100,000 to $500,000. President, F. W. Darling. The company proposes to operate an electric railway between Hampton and Yorktown. The rights of way are said to have been already secured.

FAIRMONT, W. VA.—C. L. Barnes, T. T. Holt, John S. Pople, W. T. Watson and E. Holt, City, have secured charter for a street railroad between Fairmont and Morgantown. The company is capitalized at $50,000. The road will be built through West Park addition and East Park addition to Montona and thence to Morgantown.

ELIZABETH CITY, N. C.—The citizens of Elizabeth City have been informed that the construction of a trolley line from this place to Wades Point, connecting Weeksville and Nixinton, is being strongly considered by the local electric company and that a corps of engineers is now surveying the proposed route.

ATLANTA, GA.—The Atlanta, Interurban Ry. Co. has contracted with the Westinghouse Electric Co. for the installation of the new Westinghouse single-phase alternating current electric railway system. The Interurban Company is an auxiliary of the entire Atlanta Railway system, and the new equipment is to be used on extensions which are now being constructed from the heart of the city into the suburbs, extending for a distance of 40 miles. It is understood that the cost of the apparatus to be installed will approximate $100,000.

JACKSON, MISS.—The blue prints of the survey of the Jackson-Vicksburg electric railway have been made and the company is now ready to finance the road. Wirt Adams, City, is interested.

NASHVILLE, TENN.—The charter of the Nashville & Lewisburg Interurban Railroad has been filed for registration at Nashville. The company is capitalized at $1,375,000. The road may be either electric or steam, and the probable route as outlined in the charter is via Nolensville, Triune, College Grove, Williamson county, Eaglesville, Rutherford county, Chapel Hill, Farmington and Lewisburg, Marshall county, a distance of 55 miles.

NASHVILLE, TENN.—Press reports state that Percy Warner, Pres. Nashville Ry. & Lt. Co., is considering the matter of extending the electric line about 2½ miles along Nolensville turnpike.

OWENSBORO, KY.—The Owensboro City Ry. Co. propose to extend its lines a distance of 12 miles. Chas. Brocker is president.

CLEVELAND, O.—The Richwood & Magnetic Springs electric railroad has incorporated with a capital of $50,000 to build a line in Union County. Among the incorporators are Christopher Magee and W. M. Galbreath of Pittsburgh. They control both the road and the Magnetic Springs Hotel.

GALION, O.—Promoters are surveying for an electric line between this city and Marion via Iberia, Martel and Caledonia. The idea is to strike the rich clay fields at Iberia and furnish facilities for hauling freight from that territory. It is intended to push the matter to an early issue. The officers of the company are C. W. Bechtel, president; Cal. H. Henkel, secretary, of this city, and G. C. Donnenwrite of Caledonia, treasurer. Private right of ways for the line are now being secured.

YOUNGSTOWN, O.—Articles of incorporation have been filed in Columbus for the Canton & Youngstown Electric Railway. The company proposes to build an electric line from Canton to Youngstown via Randolph. The line will be about 55 miles long. The Osborne Engineering Co., of Cleveland, will begin work on the line at once.

EVANSVILLE, IND.—The C. C. Tennis Construction Co. of Cincinnati, was awarded the contract for construction of the new electric line between this city and Newburg, in Warrick county. Work will be started at once.

VINCENNES, IND.—The directors of the Vincennes and Jasper traction line have let the contract of finishing and building the road to the International Construction Co. of Detroit for $1,000,000.

DETROIT, MICH.—The Imlay, Lapeer County, Township Board has granted a franchise for the extension of the Flint division of the Detroit United Railway. The franchise is perpetual, with exemption from local taxation for ten years. The franchise will be forfeited if road is not completed within two years. J. C. Hutchins is Manager.

JACKSON, MICH.—J. D. Hawks, of Detroit, Pres. Detroit, Ypsilanti, Ann Arbor & Jackson Ry. Co., confirms the report that an electric line to connect Jackson and Lansing, Mich., will be built.

QUINCY, ILL.—It has been announced that engineers will at once commence work of surveying for the proposed electric interurban road from Quincy to Hannibal, Mo.

JEFFRIS, WIS.—The Lincoln & Oneida County R. R. Co. has incorporated with $10,000 cap. stock. Incorporators are: J. H. Worden, E. N. Morrill, Ed. Faust, Chas. Magoon and John Eisberg. The road is to run from Jeffris into Oneida County, a distance of 12 miles.

WASHBURN, WIS.—An electric car line from here to Barksdale, five miles below this city, where the Atlantic Mfg. Co. has located its large plant, is being spoken of.

DYERSVILLE, IA.—Articles of incorporation for a new electric railroad project in which Dubuque and New Vienna capital is interested were filed with County Recorder McGovern. The new company is to be known as the Dyersville & Northern Ry. Co. and the object of the company is to construct a road between Dyersville and New Vienna and make such extensions as may be deemed advisable in the future. The new company will have a capital stock of $75,000. G. H. Hesselmann is president.

WICHITA, KAN.—The Arkansas Valley Interurban Ry. Co., which proposes to build a line between Wichita, Arkansas City, Wellington, and Geuda Springs, has increased its capital stock from $1,000,000 to $1,110,000 or $2,100,000. O. A. Boyle is president.

OMAHA, NEB.—It is announced that work will soon begin from the Omaha end of the Omaha, Lincoln & Beatrice electric railway. The right of way has been secured except in the vicinity of Omaha, and the work of grading at this end will only be delayed by this part of the arrangements. Work has been under way at the other end of the line for some time. The work is being carried on by an Ohio syndicate. F. C. Hurd of Lincoln is in charge of local affairs.

SIOUX FALLS, S. DAK.—S. C. Lee, Pres. S. C. Lumber Co.; A. H. Marshall, W. R. Marshall, J. R. Sheely and G. W. Rhine, of Des Moines, Ia., have applied to City Council of Sioux Falls for a franchise to operate a street railway and a public heating plant. The franchise has been referred to ordinance committee and in view of the general approval with which the project has been met will undoubtedly be passed. The enterprise will call for the expenditure of about $1,000,00. Under the terms of franchise work must begin at once and at least three miles be constructed within one year from passage of ordinance.

HARRISON, ARK.—We are informed that Thomas Helm, Pres. Arkansas Traction Co. would like to have propositions from financial people, construction companies or railway contractors to finance and construct the road. The line is run from Harrison to Dodd City, a distance of 30 miles, through a rich zinc and lead district.

OKLAHOMA CITY, OKLA.—It is learned that actual construction on the interurban railroad from Oklahoma City to Sulphur will begin about Oct. 15.

HARTSHORNE, IND. T.—The Indian Territory Traction Co. will at once begin the work of extending its line to Hartshorne. M. M. Lindly, of South McAlester, is secretary.

MONTESANO, WASH.—John B. Weddell, C. E., of Olympia, and E. W. Haycox have asked the City Council for a franchise for an electric railway through the city. A. S. Caton of Olympia, is also interested.

OLYMPIA, WASH.—Active work on the electric railway between Tacoma and Olympia may be commenced as soon as the surveying operations are completed.

VACAVILLE, CAL.—A franchise has been awarded by Board of Trustees for an electric road through Vacaville to J. W. Hartzel of Vallejo and associates. Part of the system is now running to tide water at Vallejo and the new franchise is a link in the general plan of development in Northern California. The line will follow the public roads to Vallejo and not be delayed by questions of right of way. The franchise is now complete for the entire route.

BRANTFORD, ONT.—The Brantford and Erie Radial Co. have made an application to the City Council for a franchise to construct a street railway line in this city. The company was incorporated last April to construct a and equip a line from Brantford to Port Dover. In addition to the road to Port Dover the company desire to construct a local line starting in West Brantford and making a complete circuit of the city.

LIGHT, HEAT AND POWER PLANTS.

ILION, N. Y.—Special election was to have been held on Sept. 13 to vote upon question of raising $25,000 for improving the electric light plant.

WEST POINT, N. Y.—Bids are asked until Oct. 6 for construction and installation of Corliss engines for electric lighting; also for the construction and installation of generators, motor generators and switchboard. Address Quartermaster, U. S. M. A. (Advertised, Engineering News.)

YONKERS, N. Y.—It is reported that Butler Bros. Contracting Co., of St. Paul, Minn., have been awarded contract to build one of the five electric power plants for N. Y. Central & Hudson River Ry. Co W. D. Harrison, St. Paul, is Consult. Engr.

PHILADELPHIA, PA.—We are informed that Dodge & Day, Engrs., Philadelphia, have been commissioned by Alexander Bros. to take charge of electrical installations in property recently acquired by them at 406 North Third St. A generator will be required, several motors, switchboard, line-shafting, wiring, etc.

These engineers have just placed orders for two horizontal high-speed engines, 100 and 240-HP., respectively, with Ames Iron Works, Oswego, N. Y. 600-HP. of tubular boiler with Ervien & Co., Philadelphia, and 100 and 150-KW. generators with Crocker-Wheeler Co., Ampere, N. J., for Victor Talking Machine Co.'s new plant in Camden, N. J. Balance of equipment has not been contracted for.

Other commissions of this firm are the purchase and installation of a night set for the new plant of the Jeanesville Iron Works Co., Hazleton, Pa., and running of a transmission line to Jeanesville (a distance of two miles) to furnish illumination for the town and residences; heating system for residence of James C. Haydon, Jeanesville; automobile garage and electrical equipment for Link-Belt Engineering Co., Nicetown, Pa. Specifications on the latter work are not ready yet.

BALTIMORE, MD.—Charles E. Phelps, Jr., Engr., has submitted a report to the Mayor on proposed cost of a municipal plant for supplying light, heat and power to City Hall, Courthouse, the new docks and piers and Center Market Space. Mr. Phelps estimates total cost of the plant at $175,000; in detail, as follows: Steam plant and machinery, $66,385; building and stack, coal storage and handling machines, $30,000; electrical distributing equipment, $17,700; steam-heating system, $28,800; miscellaneous connections, $7,115; total, $150,000. Summary: Estimated cost, $150,000. Addition to include dock lighting, $25,000; total, $175,000. Estimated annual operating expenses, $23,327; addition to include dock lighting, $5,220; total, $28,547. Output delivered: Estimated equivalent, 835,200 KW. hours; addition to include dock lighting, 385,920 KW. hours; total, 1,221,129 KW. hours. Cost per KW. hour, $0.0234.

CHARLOTTE, N. C.—The Catawba Power Co. has commissioned Hook & Sawyer, Archs., to prepare plans and specifications for power house. Building will be 50 x 70 ft., two stories and basement, clay-tile roof, brick and pebble-dash exterior, it is reported.

BIRMINGHAM, ALA.—Universal Electric Equipment Co., with capital stock of $100,000, has been incorporated by J. E. Thompson, of Charleston, W. Va.; Daniel Rogan, G. G. Sharpe, A. W. Nelson, John L. Parker and E. J. Rogan, all of Birmingham. John L. Parker is Pres.; Daniel Rogan, Secy. and Gen. Mgr. Company will manufacture and install a system of electric car lighting and to do a general electrical construction business. Mr. Thompson holds patent for the system, which it is said has been successfully tried. A plant may be erected in this city for the manufacture of electrical devices.

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TUSCUMBIA, ALA.—North Alabama Gas Co. [illegible] been granted a franchise for a gas plant in this city. Company agrees to begin the work of construction [illegible] the next 60 days and to have plant completed and [illegible] operation within nine months from the date of the franchise. As announced last week this company has incorporated with capital stock of $150,000. Pipes will be run [illegible] field and Tuscumbia, from Florence, Ala., it is said. [illegible] ence H. Geist, of Chicago, is Pres.; Charles B. K[illegible] of Grand Rapids, Mich., Secy.

ROCKFORD, TENN.—Jo Burger, James A. God[illegible] Jo Walker, S. A. Walker, Thomas F. Cooper and others have incorporated the Rockford Electric Co. Capital [illegible] at $50,000.

DANVILLE, KY.—We are informed that Frank [illegible] der, of 3933 Olive St., St. Louis, Mo., was awarded [illegible] chise for an electric light and power plant. He also was granted a franchise for a street railway, and has [illegible] Fiscal Court of Boyle county for a franchise to run [illegible] terurban railway from Danville to Junction City along the Shelby City pike. J. B. Fisher is Mayor.

COLUMBUS, O.—Local papers state that the bid of Mc-Cracken & Co., of Cleveland, on construction of [illegible] tangy River dam for municipal light plant, that was only one received by Board of Public Service, will be rejected. Bid aggregates about $12,000, which is $3,000 more than engineer's estimate.

BLOOMINGTON, IND.—People's Gas, Electric & Heating Co. is reported to contemplate issuance of $4[illegible] bonds. Entire gas works may be rebuilt, six miles of mains will be laid and new electric light engine-room will be erected. W. H. Scott is Pres.

RICHMOND, IND.—Municipal Light Commissioners are reported to be preparing to build a dam in the river below the municipal light plant.

TERRE HAUTE, IND.—Board of Public Wirks is reported to have asked for bids until Sept. 19 for lighting streets and public parks of city with electricity. S. C. Beach, Secy. Bids were asked until Sept. 7 and probably were rejected.

WATERLOO, IND.—The Waterloo Water and Light Co. is reported incorporated, with a capital of $10,000 to construct water and lighting plant at Waterloo. Incorporators: Wm. J. Vessey and Chas. L. Alds.

BENTON HARBOR, MICH.—Berrien Springs Water Power Co. is reported having plans prepared by its engineer for a power dam to furnish 50,000 HP. Est. cost, $1,500,000.

GRAND RAPIDS, MICH.—Board of Public Works is readvertising for bids for machinery for municipal lighting station.

CHICAGO, ILL.—Northwestern University has leased to the Illinois Tunnel Co. for 99 years a tract of 118,000 sq. ft. on south branch of the Chicago River as a site for one of the power systems of the company. It lies 800 ft. along Quarry St., 190 ft. along the river, and 190 ft. along the Chicago & Alton Ry. Co. tracks. Lease provides for expenditure of $100,000 within a year in the construction of buildings. Cost of the power plant to be erected will be $500,000.

AURORA, ILL.—National Gas Co., of Aurora, will erect a gas plant at some point between Elgin and St. Charles. Est. cost, $40,000.

HALLOCK, MINN.—The Hallock Light Co. has been incorporated to generate gas, steam and electricity for lighting, heating and power. Incorporators are Edward McVean, Peter H. Konzen, T. M. George, John Westerson and others.

KANSAS CITY, KAN.—The People's Natural Gas & Fuel Co. will be incorporated with a capital of $36,000,000. Application for franchises has been made to Councils of Leavenworth, Kan.; St. Joseph, Mo., and this city. It is planned to pipe natural gas from various points in Kansas and Indian Territory to these cities. Incorporators are: Walter S. Dickey, Pres. of Dickey Clay Mfg. Co.; Joseph J. Heim, Pres. of Ferd Heim Brewing Co.; U. S. Epperson, Pres. of Epperson Land & Investment Co.; Arthur E. Stillwell, Pres. of Kansas City, Mexico & Orient Ry.; J. H. Arnold, broker and capitalist; Daniel B. Holmes, attorney, and W. A. Rule, cashier of National Bank of Commerce. Mr. Arnold may be addressed. The main line will start from Bartlesville. Two routes to Kansas City are being considered. The first is from Bartlesville to Coffeyville, Kan., and thence connecting with all intermediate points and running direct to Kansas City, Kan., and the state line separating the two Kansas Cities. From Coffeyville a line would then be built to Winfield and Wichita and Newton, Kan., and from Kansas City, Kan., lines would be built to Lawrence and Topeka and to Leavenworth, Atchison and St. Joseph. Second route is from Bartlesville by way of Joplin, Carthage, Nevada, Lamar, Butler, Harrisonville, Pleasant Hill, Belton, Independence and thence into Kansas City and on the proposed lines in Kansas. Whichever route is selected, the company will supply all intermediate points and will receive natural gas from all the Kansas gas belt. Main pipe lines from Bartlesville to Kansas City will be 400 miles in length, while the system, including laterals, will be over 2,400 miles long. Estimated cost of construction is $12,000,000.

HUTCHINSON, KAN.—F. W. Casner, of Kansas City, is interested in plan to erect an electric light plant here.

DIXON, NEB.—An acetylene gas plant is under consideration.

GENEVA, NEB.—Council has granted an electric light franchise to Gregory F. Skinkle. Mr. Skinkle is a member of city council.

BRADY, TEX.—C. C. Bumgardner and G. R. White are reported to be organizing the Brady Water & Light Co., which will erect water-works system and light plant of 500 dynamo capacity, driven by 50-HP. gasoline engine. Machinery will cost $10,000. It is the intention of the firm to erect an ice plant later.

BRISTOL, TEX.—City has granted a franchise to James P. Hurdic, of Canton, Pa., and associates for construction of a system of water-works and an electric power plant.

ST. JOSEPH, MO.—W. C. Stewart, Cy. Electrician, will soon locate a site for new lighting plant.

ALBUQUERQUE, N. MEX.—The Albuquerque Electric Power Co. has been incorporated by William B. Childers, Edward Allen and others. Capital, $50,000. Object, to generate electricity. Place of business, Albuquerque.

GRASS VALLEY, ORE.—It is reported that Council has practically completed arrangements to issue bonds for $10,000 to buy and improve the electric light and water plant. Present plant will be enlarged. New gasoline engine of 50 HP. will be bought and present 250-light dynamo will be replaced with a dynamo that will furnish 800 lights of 16 c. p. each.

EUGENE, ORE.—The Lane County Electric Light & Power Co. has submitted proposition to City Council for lighting streets of the city of Springfield. No action was taken.

PENDLETON, ORE.—The Echo Water, Light & Power Co. has incorporated with capital of $10,000. Company will install an electric plant. A 500-light dynamo will be installed. Two engines of 12 HP. each will run the light and water plant. Work on the water-works plant is being pushed. The water from the well will be pumped to a concrete reservoir to be built on the hill east of town; 8-in. mains will carry water to reservoir and to the town.

EUREKA, CAL.—W. H. Haw, County Clk., writes that no action has been taken as yet in regard to granting franchise to erect and maintain poles for transmitting electricity along streets in Loleta, Fortuna, Rohnerville, Alton, Hydesville and Carlotta and Table Bluff, Humboldt County, as applied for by the Humboldt Milling Co.

OXNARD, CAL.—Board of Trustees has granted permit to E. P. Foster Co. to lay pipes in streets for conveying natural gas from the Ventura wells. A compression tank will be installed.

REDDING, CAL.—The Shasta Power Co. has awarded to National Electric Co. the contract to furnish all the electrical machinery required for its power plant.

UKIAH, CAL.—J. E. Pemberton, of Com. on Electric Light, has submitted a report in which he gives the following estimates for a larger plant: Engine, 250 HP., $2,887; boiler, $1,300; generator and switchboard, $2,825; cost of installment, $1,000; total, $8,012.

SALT LAKE CITY, UTAH.—The Connor Mining & Electric Co., of Salt Lake City, is preparing to install an electric power plant of 700 HP. in Soldier Bridge canyon, near Stockton, Utah. W. B. McSherry is Gen. Mgr.

Don Strong and others, of Alpine, have applied for right to use 40 second feet of water from Alpine or Dry Creek, in Utah Sounty, to develop 1,700 HP. for generating electricity for light and power to be used in Salt Lake County. It is the purpose of the applicants to join this proposed plant with one already in operation at the mouth of American Fork canyon and to extend their field of power and lighting service to this city.

SALT LAKE CITY, UTAH.—James J. Chambers, a New York City capitalist, is reported interested in plan to erect a power plant, to be operated by power secured from Little Cottonwood and Big Cottonwood Creeks. He expects to develop a total of 2,800 HP. from the two streams for operation of mines, smelters and electric lighting plants, and has made filings of water applications in the office of the State Engineer.

VANCOUVER, B. C.—The Harrison Lake Power Co. will build a new power house to utilize the 30,000 HP. from Rainbow falls, about five miles from Harrison Hot Springs. E. J. Fader, of New Westminster, is interested in the project.

MOYIE, B. C.—It is proposed to construct an electric light and power plant near here, to cost $20,000. Geo. Clother is Engr.

PRESTON, ONT.—Electors have voted in favor of municipal ownership of electric lighting plants. A new power station will be erected.

BRIDGES.

CAMBRIDGE, MASS.—Plans for the Brookline St. bridge as prepared by City Engineer Jackson, of Boston, were approved by the Cambridge bridge commission.

WALTHAM, MASS.—An order appropriating $3,760 for a new steel and concrete bridge across the Charles River at Woerd Ave. was passed to a second reading by Board of Aldermen.

SALEM, MASS.—It is expected that the $100,000 Kernwood bridge, between Salem and Beverly, will be built before January, as the County Commissioners have accepted the engineers' plans and are about ready to advertise for bids.

NEW YORK, N. Y.—Mayor McClellan has approved an ordinance adopted by Board of Aldermen, providing for an issue of corporate stock in the sum of $80,000, to provide means for removal of bridge over Harlem River ship canal, and its erection upon the pivot pier and abutments erected between East 184th St. and West 207th St., and the construction of a new bridge across the ship canal according to plans and specifications submitted by Bridge Commissioner Best. Contractor John B. McDonald will make the improvements, as the proposed bridge has to do with the Rapid Transit Railroad.

BUFFALO, N. Y.—F. G. Ward, Comr. Pub. Wks., has rejected all bids received Aug. 25 for constructing superstructure of bascule bridge over Buffalo River at Ohio St., and will soon call for new proposals. Oswego Bridge Co., at $148,000, was low bidder.

KITTANNING, PA.—Bids are asked by Levi Davis, R. R. No. 2, until Oct. 5, for constructing an iron bridge over Pine Creek; bids to include all material for, and building of abutments, wing walls and superstructure complete. Bridge to be 65 ft. long, 16 ft. wide.

YORK, PA.—Bids are asked by Bd. Comrs. Pub. Grounds and Bldgs., at Harrisburg, until Sept. 29 for rebuilding substructure and superstructure of highway bridge over Conewago Creek. John E. Stott, Secy.

WEST CHESTER, PA.—Bids are asked by Commissioners until Sept. 16 for the erection of abutments and wing walls for bridge over Pickering creek in West Vincent township.

Bids are asked at the same time and place for the erection of a 25-ft. stone bridge with brick arch over French creek. J. Ellwood Quay, Jesse J. Hickman and Samuel S. Bossert, Comrs.

PHILADELPHIA, PA.—Plans have been completed by the Bureau of Surveys for the new bridge upon the line of Allegheny Ave. to carry the eight tracks of the New York branch of the Pennsylvania Railroad over thoroughfare now blocked between Eighth and Ninth Sts. by railroad embankment.

PITTSBURG, PA.—The Pittsburg Street Railway Co. is considering the advisability of moving Brown's bridge, which crosses the Monongahela River at Brown's station, to a point 300 yds. down the river and elevating structure 75 ft. in order to do away with grade. The company's engineers are estimating the cost and practicability of the work.

DANVILLE, VA.—The Street and Bridge Committee of City Council awarded to the Virginia Bridge Co. of Roanoke, the contract for building a new bridge across the Dan River for $28,500.

CHESTERFIELD, VA.—It is reported that bids will be received by Board of Supervisors until Sept. 26 for building a new steel bridge over Swift Creek. The bridge will have one main span of 60 ft., with amout 200 ft. steel approaches.

PETERSBURG, VA.—It is proposed to erect a bridge across the Appomattox River from Ferndale Park, the Dinwiddie County terminus of the trolley line of the Virginia Passenger & Power Co. to the village of Matoaca, immediately opposite in Chesterfield County. A petition from the citizens of Dinwiddie and Chesterfield Counties, asking for the improvement, will soon be presented to the proper courts.

RICHMOND, VA.—The Board of Supervisors has accepted the bids of the Virginia Bridge & Iron Co. of Roanoke, for construction of two bridges over Stoney Creek, one on the Creighton Road and the other at the foot of Oakwood Cemetery. Cost of the bridges will be $2,465. Work will begin at once and finished Dec. 1.

ATLANTA, GA.—The bridge committee, Councilman A. C. Bruce, chairman, awarded the contract for building the Magnolia St. bridge to the Baltimore Ferro-Concrete Co. Cost, $15,750. Work will begin at once.

NEW ORLEANS, LA.—Bids are asked until Nov. 4 for construction of a viaduct over tracks of Southern Pacific Railroad Co. on the line of Newton St. in Algiers, Fifth Municipal Dist. V. Tujague, Comptroller. Hon. W. J. Harder, Cy. Engr. (Advertised, Engineering News.)

COLUMBIA, LA.—The Virginia Bridge & Iron Co. was awarded the contract for construction of a traffic bridge over Ouachita River at this point. Work is to begin not later than Jan. 1.

CINCINNATI, O.—Bids were opened by the Board Public Service, Sept. 6, for the proposed Grandin Road viaduct over Delta Ave. The lowest was $106,500, by Grainger & Co., of Louisville (awarded contract), the highest, $168,000, by N. P. Elliott. The other bids were as follows: Chas. L. Strobel, $125,800; Owego Bridge Co., $139,750; Dalton Iron Co., $114,142; Champion Bridge Co., $129,775; Illinois Bridge Co., $139,000; King Bridge Co., $116,995; Huston & Cleveland, $140,000; Russell Wheel & Iron Co., $147,368; Interstate Eng. Co., $114,634; Massillon Bridge Co., $135,000; Penn Bridge Co., $120,000; Mt. Vernon Bridge Co., $134,000; Joliet Bridge & Iron Co., $124,500; Newcastle Bridge Co., $148,000; Riverside Bridge Co., $116,000; Canton Bridge Co., $137,750; Virginia Bridge & Iron Co., $126,000; Variety Iron Works Co., $116,450; Brackett Bridge Co., $108,980.

CLEVELAND, O.—A new bridge will be built by the Wheeling & Lake Erie across the Cuyahoga River within a year. It will start at the foot of Cross St., where the present bridge stands. The Wheeling has been notified by the Government that one of the bridge abutments interferes with the navigation of river and it is on this account the railroad has decided to build a new bridge. The Wheeling cannot put in a lift bridge because the lift would interfere with the Nickel Plate Railroad. On that account it will have to build a new swing bridge with one short span and one long one. The work will be started early next spring. W. S. Newhall, City, is chief engineer.

SPRINGFIELD, O.—The contracts for two large steel bridges, one at Battle Creek, Mich., two spans of 58 ft. each, costing $18,000, and the other at Springfield, O., for two spans of 60 ft. each, costing $60,000, have been awarded to the Osborn Engineering Co. of Cleveland.

SPRINGFIELD, O.—City Council has decided to build a new bridge at intersection of Sherman Ave. and Nelson St. W. H. Sieverling is city engineer.

FINDLAY, O.—The Hancock County Commissioners have sold $59,000 bridge bonds. The proceeds are to be used in repairing and rebuilding bridges in Hancock County.

INDIANAPOLIS, IND.—The lowest bid for a new bridge over White River at West Michigan St. was submitted to the Board of County Commissioners by the Newcastle Bridge Co., which agrees to build a Melan arch bridge for $122,051 which is $45,948 less than the amount available for the work. The Commercial Club Bridge and Stream Commission recommended that the contract be awarded to this company. Not a bid on a stone bridge was submitted. The low bid on concrete steel is $25,770 lower than the lowest bid for a plate girder bridge.

Mayor Holsom and the Park Commissioners are putting forth an effort to secure the building of a new bridge over White River at 30th St., the entrance to Riverside Park. This bridge will be a modern structure 70 ft. wide with walks on each side.

VERSAILLES, IND.—Bids are asked by Nicholas Volz, County Audr., until Sept. 20 for constructing a wagon bridge over Pipe Creek.

RICHMOND, IND.—Citizens of Jackson and Jefferson townships, this county, appeared before the County Commissioners and asked for the construction of a bridge across West River at Murray's Ford, about three miles west of Hagerstown. A span of 125 ft. will be required at a probable cost of $3,500.

WALKERVILLE, MICH.—The Canadian Bridge Co. of this city, has been awarded the contract for the erection of three bridges over Belle River at a total cost of $6,000.

GREEN BAY, WIS.—Bids are asked by Committee of Streets and Bridges of Common Council until Sept. 29 for construction of a steel draw bridge over East River on Webster Ave. W. L. Kerr, Cy. Clk.

OSHKOSH, WIS.—Bids are asked by Board Public Works until Oct. 1 for construction of substructure of proposed bridge over Fox River, connecting Main and South Main Sts. There is 3,600 cu. yds. concrete and masonry in three large piers to bed-rock and two abutments on piles. K. L. Lehman, Consult. Engr., 910 Opera House Bldg., Chicago, Ill. (Advertised, Engineering News.)

SOBIESKI, WIS.—J. J. Hof, Pres. Hof Land Co., writes us that the contract for building concrete arch bridge was awarded to Marsh Bridge Co. of Des Moines, Ia.

ST. PAUL, MINN.—Kelly-Atkinson & Co. were the lowest bidders for the removal of portion of the Smith high bridge, blown down by the recent cyclone, but as the firm did not comply with the specifications and furnish a bond, all bids were rejected and the city engineer authorized to readvertise. The Kelly-Atkinson bid was for $5,350, and the next lowest was W. H. Hewitt at $6,750.

KANSAS CITY, MO.—Mayor Neff has signed the ordinances requiring the Kansas City Belt Railway to build viaducts at Olive St. and at Montgall Ave.

KANSAS CITY, MO.—The lower house of Council passed the ordinance granting a franchise to Kansas City Viaduct Terminal Railroad Co. to build a viaduct through the west bottoms. The viaduct which the company proposes to build is to start from Sixth and Bluff Sts. and extend to foot of Minnesota Ave. in Kansas City, Kan. The cost is estimated at $2,000,000. It will take two years to build. Eastern capital is said to be behind the scheme.

TALOGO, OKLA.—The contract has been let to the Alexander Bridge Co. of Kansas City, Mo., for $18,999 for an iron bridge over the South Canadian River.

SEATTLE, WASH.—Bids will soon be called for the construction of a steel bridge over University St.

EVERETT, WASH.—W. D. Barkhuff, Cy. Engr., informs us that bids will be received until Sept. 26 for constructing a steel bridge on a concrete foundation over Snohomish River. Cost, $65,000. J. H. Mitchell, Cy. Clk.

LOS ANGELES, CAL.—H. S. Farnsworth was the lowest bidder at $8,687 for constructing the overhead crossing at Sunset Boulevard and Lake Shore Ave.

City Engineer Stafford has prepared plans and specifications for the foot bridge along Southern Pacific viaduct, crossing Los Angeles River at Alhambra Ave., and will recommend that council advertise for bids for doing work.

BOISE, IDAHO.—Bids are asked by W. L. Cuddy, County Clk., until Sept. 20 for repair of bridge across Boise River, known as Star bridge.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

BUILDINGS.

NEW BEDFORD, MASS.—Contract for erecting the 16-room school at County and Coggeshall Sts. was awarded, at $68,439, to H. A. Miller. Contract for ventilating and heating was awarded to N. B. Boiler & Machine Co., at $7,700.

WORCESTER, MASS.—Plans prepared by Edwin T. Chapin, 340 Main St., for a $40,000 synagogue, to be erected at 31 Providence St. by the congregation of the Sharra Thorah, have been approved, it is reported.

Contract to erect Alumni Hall at Holy Cross College has been awarded to McGuire & Penniman, of Providence, R. I., at about $100,000.

BOSTON, MASS.—Bids are asked until Sept. 26 by Schoolhouse Commissioners for erecting (including heating and ventilating, electrical and plumbing work) school in Lyman Dist., Paris and Marion Sts., East Boston. Winslow & Bigelow are the Archs., 3 Hamilton Pl. R. Clipston Sturgis, Comr.

FAIR HAVEN, MASS.—It is reported that hotel will be built here by H. H. Rogers, of the Standard Oil Co. Plans have been prepared by Charles A. Brigham, 8 Exchange St., Boston. Cost, $100,000.

BROOKLYN, N. Y.—Plans have been filed for a 3-story brick police station to be erected at Lawrence Ave. and Third St. Cost, $85,000. W. Hull, 16 East 23d St., New York, is the Arch.

Arbuckle Bros., coffee and sugar manufacturers, will soon construct a freight terminal at foot of Jay and Bridge Sts. Poillon estate has been purchased for this purpose. Terminal will cost $1,500,000 and be capable of handling 300 boxcars a day. Piers 360 ft. long, running at acute angles to the bulkhead and pierhead lines instead of at right angles to the course of the river, will be built. A slip capable of receiving the largest carfloats will be constructed at the northeast corner of the property. Three 7-story fireproof warehouses, 350 × 125 ft., with hydraulic elevators, will be erected.

ALBANY, N. Y.—Price, Marvin & Davis, Archs., New York, will prepare plans for an annex to New Kenmore Hotel, of which Robt. P. Murphy is proprietor. 51 × 142 ft., eight stories, of steel frame construction, press brick, sandstone trimmings. The annex will have 132 rooms, with baths. Cost, about $160,000. Mr. Murphy also has plans for alterations to the hotel proper that will cost $30,000.

NEW YORK, N. Y.—It is reported that Reginald C. Vanderbilt will erect 23 apartment houses on 211th St., between Tenth Ave. and Broadway. Property is in name of John H. Meuse. Cost is estimated at $415,000.

KINGSTON, N. Y.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., until Oct. 4 for construction of foundations of post office.

WILLETS POINT, N. Y.—Bids are asked until Sept. 17 for installing electric light fixtures and wattmeters in bachelor officers' quarters and in double officers' quarters at Fort Totten. Capt. Geo. H. McManus, Con. Q. M. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked until Sept. 21 (1) for furnishing necessary labor and material for mason, iron, marble, slate, tinning and plastering work, and renovating and tiling; (2) for plumbing work and to complete alterations to steam heating apparatus; (3) for the painting, cabinet and carpenter work, ornamental plaster work, parquet flooring and rugs; (4) for installation of electric lighting and ventilating systems, in the City Hall, Borough of Manhattan. John F. Ahearn, Boro. Pres.

Bids are asked by Department Parks, Arsenal Bldg., Central Park, until Sept. 22 for furnishing all labor and materials for erection and completion of a pheasant's aviary in Zoological Park, Bronx. Wm. P. Schmitt, Comr. Parks, Boro. Bronx.

Bids will be received by Henry Fouchaux, Arch., 162d St. and Broadway, for a 6-story apartment house on 114th St., west of Broadway. Building will be 125 × 87 ft., limestone, brick, steam heat, elevator, etc. Central Building Improvement & Investment Co., 587 Lenox Ave., is owner. Est. Cost, $200,000.

Arthur Arctander, Arch., 520 Willis Ave., will receive bids on a 5-story brick academy, 35 × 80 ft., to be built on 137th St., west of Alexander Ave., Bronx, for the Ursuline Academy, of Bedford Park, Bronx. Estimated cost, $40,000.

WESTEND, N. J.—Geo. W. Spitzer, 27 West 21st St., New York, is making sketches for alterations to the Westend Hotel, H. Wronkow, 23 Union Sq., New York, prop.; 75 new bathrooms, new wide pine porches, remodeling and redecorating the theater and amusement hall, installing Venetian garden, etc. Cost, $50,000.

ATLANTIC CITY, N. J.—Dunlop Hotel Co. has incorporated with capital of $75,000. Incorporators are: Robt. T. and Thos. A. Dunlop and Wm. R. Pedrick.

PATERSON, N. J.—Michael Lynch Building Co. was lowest bidder, at $54,300, for building new police station. Changes in plans were made and the David Henry Building Co. was awarded contract, with revised low bid of $52,883. Other contracts awarded were as follows: Roofing, Quinn Brothers, $1,370; heating, F. A. McBride, $2,680; plumbing, $2,200. Wm. Fanning is Arch.

BAYONNE, N. J.—Contracts for building new Police Headquarters were awarded as follows: For general construction work, Church Construction Co., at $51,850; McLaughlin, of Jersey City, contract for plumbing and heating, at $5,621.

PITTSBURG, PA.—Joseph Stillburg, Germania Savings Bank Bldg., has prepared preliminary drawings for a hotel for the Joseph Patterson estate, care Commonwealth Real Estate Co., Fourth Ave. Eight stories, 200 rooms, fireproof, steam or hot water heat, combination light fixtures, elevators, archit. iron work, mantels, baths, etc. Cost, $300,000.

SWISSVALE, PA.—F. G. Sheibler, Jr., Arch., Wilkinsburg, Pa., is taking bids on erection of new schoolhouse for borough. Cost, $50,000.

PHILADELPHIA, PA.—Bids for construction of several buildings for new Home for the Indigent, State road and Ashbourner St., have been received. There is $500,000 available at present for the work.

Bids were asked for on four items as follows: (1) Three central buildings, B, C and D; (2 and 3) wings, consisting of corridors and kitchens; (4) completing entire work. Henderson & Co., were lowest bidders, $352,597, $73,477, $75,477 and $624,897, respectively. Philip H. Johnson, the Arch., is reported as stating that contract would probably only be awarded on the first and second items on account of the limited appropriation available.

PITTSBURG, PA.—Wm. Miller & Sons, Frick Bldg., general contractors for the extension of the Carnegie Institute, are reported to have awarded contracts for various parts of the work, as follows: Marble, B. P. Young Co., 1206 Carnegie Bldg., $650,000; steel, Carnegie Steel Co., Pittsburg, $306,000; skylights and sheet metal, Thos. W. Irwin, Allegheny, $108,000; plumbing, Geo. F. Soffel, 503 Ross St., $29,000; interior finish work, Wm. Miller & Sons, Rochester, $48,000; weather strips, Chamberlain Metal Weather Strip Co., Detroit, Mich., $1,500; rubble stone, 8,000 tons, Beaver Valley Sandstone Co., $9,600; total, $1,152,100. Sub-contracts for the power house were let as follows: Interior finish, Wm. Miller & Sons, Rochester; sheet metal work, Thos. W. Irwin; steel work, Carnegie Steel Co.

WALLINGFORD, PA.—Contract for erecting a group of buildings for Philadelphia Orphans' Asylum was awarded to Jacob Myers & Sons, of Philadelphia. Delano & Aldrich, of New York, are the Archs. The main building, 300 x 75 ft., will be three stories high and have a wing projecting on each side. It will be connected by colonnades, with two cottages. Cost, $75,000.

BRADDOCK, PA.—St. Michaels R. C. Congregation will erect new church and parish house here. Cost, $50,000.

PHILADELPHIA, PA.—J. Horace Cook, Arch., City Hall, informs us that bids will be received in three or four weeks for several of the following school buildings, for which he is preparing plans: 11th ward, $50,000; Seventh ward, $60,000; Sixth ward, $65,000; Third and Pine Sts., $40,000; Third and Christian Sts., $60,000; Wharton and Sheridan Sts., $25,000; 24th ward, $55,000; 15th ward, $50,000; 18th ward, $50,000; Oak Lane, $50,000; Pnann and Decatur Sts., $45,000; Hunting Park and Pulaski St., $70,000; Front and Wolf Sts., $70,000; Belmont Ave. and Monument Road, $20,000; Emerald and Orleans Sts., $75,000; 57th and Spruce Sts., $70,000; 28th and Diamond Sts., $60,000, and 11th and Venango Sts., $60,000. Appropriations have been made for this work. Plans are in preparation and when completed bids will be asked. If possible bids will be received for all of these schools this year.

BALTIMORE, MD.—Plans and specifications prepared by Wyatt & Nolting, Archs., Builders' Exchange, for reconstruction of St. Paul St. end of courthouse damaged by the fire in February, have been approved by the Courthouse Commission. Cost of repairs, about $150,000.

The Builders' Exchange has project under consideration, it is said, for erecting a building in center of city. John R. Forsythe, Arch., 411 St. Paul St., has started preliminary plans. J. H. Short, 5 Uhler alley; A. H. Clarke, 321 West Pratt St.; F. G. Boyd, 204 East Lexington St., and others are a committee in charge.

Simonson & Pietsch, Archs., Hoen Building, Lexington and North Sts. have been commissioned to prepare plans and specifications for Eastern High School building to be located at North Ave. and Broadway. Three stories high with basement, 189 x 200 ft., brick, concrete foundations, steel beams and girders, fireproof floor, electric wiring and fixtures, steam heating systems, etc. Estimated cost is about $250,000. Building Inspector Preston is quoted by local papers in stating that the contract for the new building probably will not be given out before the early part of next January, owing to the time required to prepare plans and specifications. Mr. Preston is said to be of the opinion that the building, to be constructed according to this design, will cost about $400,000.

WASHINGTON, D. C.—Three lowest bids received Sept. 12 for constructing addition to Marine Barracks in this city are as follows: Chas. McCaul Co., 10 North 11th St., Philadelphia, Pa., $81,874; Kendrick & Roberts, $83,577; Gleason & Humphrey, $83,800.

WASHINGTON, D. C.—Bids are asked until Sept. 24 by Board of Commissioners, Stanley Building, Soldiers' Home, for construction and installation of a hot water heating apparatus for the administration building, and a hot water heating and ventilating apparatus for the addition to the Barnes Hospital at the U. S. Soldiers' Home. John Summer Hayes, Lieut.-Col., U. S. A., retired, Constructing Officer.

Bids are asked by Treasury Department until Nov. 7 for a mechanical ventilating apparatus and changes in connection therewith for the Treasury Building. James Knox Taylor, Supervising Arch.

NORFOLK, VA.—Bids were to have been received until Sept. 14 for erecting the 12-story bank building of the National Bank of Commerce. Parker & Thomas, 429 North Calvert St., Baltimore, Md., are the Archs.

CHARLESTON, W. VA.—Chesapeak & Ohio Ry. Co. has let contract to J. E. & A. L. Pennock, 307 Walnut St., Philadelphia, at $57,640; for the construction of passenger station. Wilson, Harris & Richards, of Philadelphia Pa., are the Archs. C. E. Doyle, Richmond, Va., is Gen. Mgr. of C. & O.

SUMTER, S. C.—Bids are asked by Sumter Hospital Co., Inc., until Sept. 19 for erection of a hospital building. D. G. Zeigler is Arch. Dr. H. M. Stuckey, Secy.

CHARLESTON, S. C.—Bids are asked until Oct. 15 by Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a brick and steel building at the navy yard. Mordecai T. Endicott, Ch.

SYLVESTER, GA.—Contract for building county court house was awarded to Totherow & Co., of Birmingham, Ala., at $45,996.

MOBILE, ALA.—The Mobile Cold Storage Co. will be incorporated, with a capital stock of $100,000, to erect cold-storage plant it is said. Officers will be: Walter F. Walsh, Pres.; A. S. Lyons, vice-Pres.; A. Dacovich, Treas.; M. Canizas, Secy.

BIRMINGHAM, ALA.—General plans and specifications prepared by J. H. Phillips, Supt. Schools; J. B. Cunningham and Julian Kendrick, Cy. Engr., for erection of proposed high-school building have been approved by Committee. Three stories high with basement, brick, electric power plant for heat and lighting purposes. Estimated cost, $125,000. Movable furniture, $25,000. Special Committee on Buildings, Bd. Education, invite architects to submit plans and specifications for the school until Nov. 1, conforming to requirements of the committee. W. M. Drennen, Chn.; J. H. Phillips, Secy.

NEW ORLEANS, LA.—Bids are asked until Oct. 8 for constructing a brick and steel building, 62 x 202 ft., at naval station. Mordecai T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C. Specifications for this work are on file at office of Engineering News.

NATCHITOCHES, LA.—It is reported that work will begin soon on State Normal School building that will cost $135,000. Main building to cost $85,000, will be completed first, and the two wings, each costing $25,000, will be erected later. B. C. Caldwell is Pres. State Normal School.

Police Jury has awarded contract for construction of a new jail. Pauly Jail Co., of St. Louis, represented by S. H. Hull, at $32,500.

GREENVILLE, MISS.—Bids are asked until Oct. 6 for the erection of a new school building. W. Yerger, Mayor. Kenneth McDonald and J. F. Shebiessy, Archs., Louisville, Ky. (Advertised, Engineering News.)

NEW ORLEANS, LA.—Peter Torre will erect a 10 or 12-story hotel of modern construction, 100 x 140, ft., it is reported. Cost, $1,000,000. H. Jordan Mackenzie is Arch.

MEMPHIS, TENN.—Several buildings were burned in business section of city. Building occupied by Oliver-Finnie Grocery Co. was damaged to extent of about $300,000.

NASHVILLE, TENN.—Corner Realty Co. has let contract to Westlake Construction Co. of St. Louis, for erecting 12-story office building. Red brick, 100 x 60 ft., fireproof construction, electric elevators, heating and lighting plants. Estimated cost, $240,000. Barnett, Haynes & Barnett of St. Louis, are the Archs.

ZANESVILLE, O.—Three lowest bids received Sept. 12 for constructing post office in this city are as follows: Andrew Doll & Son, Cleveland, O., $81,626; Robt. H. Evans & Co., $84,526; Brady Construction Co., $89,870.

INDIANAPOLIS, IND.—Bids are asked by John E. Cleland, Bus. Dir. Bd. Comrs., until Sept. 23 (readvertisement, former bids rejected) for the installation of a heating plant in the Shortridge High school, cor. North and Pennsylvania Sts. Vonnegut & Bohn, Archs.

CHICAGO, ILL.—St. Ambrose Roman Catholic parish may erect a church at 47th St., and Ellis Ave. Cost, $70,000. Father Wm. Foley is pastor.

Plans are being prepared by Hollabird & Roche and Richard E. Schmidt for Michael Reese hospital, that will be erected at 29th St. and Groveland Ave. New building will be fireproof, and will cost $350,000. H. F. Hahn is Chn. of Bd. of Directors.

CHICAGO, ILL.—Swedish-American Hospital Association, of Englewood, has been chartered, with capital stock of $100,000 to build a hospital in Englewood. Rev. Eric Rosen, 5915 Emerald Ave., is temporary president.

CHICAGO, ILL.—Bids are asked until Sept. 21 for construction of a building in Sherman Park, near Throop and 52d Sts. D. H. Burnham & Co., Archs., Railway Exchange Bldg. Separate bids are invited for concrete, carpentry, electric wiring, glass, heating, hardware, iron work, lighting fixtures, plumbing, plastering, painting, slate work, sheet metal. Bids are also invited in the aggregate for two or more classes of work and for a lump sum for the entire construction of the building, including all classes of work. Bids are wanted for both brick and concrete walls above the floor grade. South Park Commissioners, E. G. Shumway, Secy.

MILWAUKEE, WIS.—It is reported that the Thompson-Lundy Co., of New York, will erect a $200,000 hippodrome here. Hippodromes will be built, it is said, in Chicago, Kansas City, Indianapolis, Pittsburg, Baltimore, New Orleans, Buffalo, Montreal, Detroit and Toronto. The buildings will cost from $100,000 to $200,000 each.

Uihlein Bros. will erect an 8-story, 75 x 120 ft., steel and terra cotta building on Grand Ave. Cost, $200,000. Kirchoff & Rose are Archs.

A bill providing for an appropriation of $100,000 to remodel and enlarge the Normal School will be introduced in the legislature.

The statutory committee of School Board has accepted plans of Buemming & Dick for new $150,000 North Side High School, to be erected at Twelfth and Center Sts. To be constructed of gray mottled brick, with trimmings of Bedford stone, 210 x 160 ft., three stories.

MARSHALLTOWN, IA.—Bids were received on Sept. 6 for construction (including heating apparatus, conduits and electric wiring) of post office building here. Newmon & Hoy, St. Paul, Minn., were lowest bidders, at $65,260; time, Jan. 1, 1906.

CHEYENNE, WYO.—Opera house will be erected here to cost $70,000. Plans prepared by Wm. Du Bois, Kent Block, it is reported.

MOBERLY, MO.—Lowest bid for construction (including plumbing, heating apparatus, electric wiring and conduits) of the post office here, submitted by George E. Hopper, Arkansas City, Kan., at $35,000, was in excess of the appropriation. All bids were rejected. After slight modifications in the drawings the work will be readvertised.

BOWLING GREEN, MO.—An election may be held to vote on a proposition to issue bonds to the amount of $100,000 for the purpose of building two court houses, one at Bowling Green, the county seat, at cost of $60,000, and one at Louisiana, at cost of $40,000.

ST. LOUIS, MO.—Bill has been presented to House of Delegates providing, if passed, for issuance of $9,000,000 bonds for various municipal improvements, in part as follows: For construction and extension of hospitals for chronic and convalescent cases and for a female hospital, including sites, $800,000; for construction, reconstruction and extension of Insane Asylum, including sites, $1,000,000; for construction and extension of fire department buildings, including sites, $230,000; for construction, reconstruction and extension of buildings for jail, criminal, police and other courts, police headquarters, health department headquarters and dispensary, including sites, $2,970,000.

HOUSTON, TEX.—Ordinance is before council providing for right to borrow $100,000 for new schools, etc.

OKLAHOMA CITY, OKLA.—C. R. Tate, of Tate, Ga., is said to be interested in project to build 5-story building, 50 x 140 ft. Marble and steel. Estimated cost, $125,000.

OKLAHOMA CITY, OKLA.—Matthews & Rice, 1 Hendrickson Bldg., are ready for figures on the following work for St. Mary's Academy building: Roofing slate, sheet metal work, plastering, painting, glass, ...ish, plumbing, heating, gas fitting and electri...

SEATTLE, WASH.—Bids are asked until ... constructing a quartermaster's storehouse a... apparatus building and magazine at Fort La... F. A. Grant, Q. M.

SEATTLE, WASH.—Plans for new Cathol... have been adopted. Building will cost $12... sive of interior finishings. Previously menti...

Council has authorized a special election to ... Nov. 7, to vote bonds for $800,000 for the pr... city hall and jail.

OAKLAND, CAL.—$960,000 school bonds re... have been sold.

V. H. Metcalf is reported to have stated tha... gration station may be established on Angel Isla... missioner of Immigration Sargent will inve... matter and report upon it. This station, if buil... about $200,000.

ORANGE, CAL.—Bids are asked until Sept. 2... struction of Union High School. A. Dudley is ... Wm. M. Gregg, Clk.

SAN FRANCISCO, CAL.—Bids are asked un... for construction of an additional story to Admi... Building of General Hospital, Presidio of San F... including plumbing, heating and wiring. Wm. S... Asst. Q. M.-Gen.

SAN FRANCISCO, CAL.—W. J. Cuthbertson, ... tage & Cuthbertson, Archs., 415 Montgomery St., ... that all contracts are let for apartment hous... erected on Geary St. Building will be eight stories, ... 65 ft., brick, stone and steel. Cost, $150,000. ... Bros. have contract for brick and stone work; Val ... carpenter work; Western Iron Works, steel; Mangr... Otter, heating.

Bids are asked until Oct. 3 for purchase of ... bonds, aggregating $2,345,800, as follows: Hospital bo... $250,000; school, $1,077,000; county jail, $278,... brary, $739,800. Chas. W. Pay, County Clk.

WATER SUPPLY AND IRRIGATION.

HARDWICK, VT.—Village has voted to appropriate $15,000 for increasing present water supply.

ATTLEBORO, MASS.—Town voted Sept. 6 to appropriate $115,000 for new water system. Of this amount $15,000 is to go for a new well, $35,000 for a new stand-pipe of steel and concrete on Ide's Hill, $28,000 for the laying of new pipes and mains, and the remainder for the purchase of land and land rights. George H. Snell is Supt. W.-W.

BROCKTON, MASS.—Reeves Bros. Co., Alliance, O., was awarded contract for construction of stand-pipe for city, at $10,325.

NORTH ATTLEBORO, MASS.—Contract for laying extension to water mains to Oldtown has been let to Frederick E. Shaw, Providence, R. I.

NEW HAVEN, CONN.—New Haven Water Co. recently let a contract to the Builders' Iron Foundry, Providence, R. I., for a 10,000,000-gallon d'Auria high-duty horizontal compound duplex condensing pumping engine for its Lake Saltonstall station.

SOUTH NORWALK, CONN.—City has been petitioned to extend 6-in. main down Ely Ave. to Wilson Point Road, at est. cost of about $6,000. Stephen S. Hatch is Water Comr.

BALLSTON SPA, N. Y.—Contract to install electric motor and pump for local water station has been let to Rumsey & Co. for $2,163.

BUFFALO, N. Y.—All bids received July 26 for repairing Engine No. 8 at water-works pumping station have been rejected and work will be done by day labor under supervision of F. G. Ward, Comr. Pub. Wks. Lowest bid received was $34,800, and this was stated to be $15,000 higher than estimated cost.

NEWTON, N. Y.—Bids are asked by Board Water Commissioners until Sept. 19 for construction of storage reservoir. Project will require about 14,000 cu. yds. earth work and 300 cu. yds. concrete work. A. H. Konkle, Town Engr.; Wm. W. Woodward, Chn.

NIAGARA FALLS, N. Y.—We are informed that proposition to bond city for $764,000 for new water-works failed to carry at election Sept. 8. Another proposition will probably be submitted. Walter W. McCulloh is Cy. Engr.

NEW YORK, N. Y.—Bids are asked by Park Commissioners, Arsenal Bldg., until Sept. 29 for furnishing and delivering iron water pipe at Sunset Park. John J. Pallas, Pres.

POLAND, N. Y.—Contract for constructing village water-works was let Sept. 1 to John J. Siegrist, Utica, N. Y. Contract for pipe and hydrants was let to Chas. Miller & Son Co., Utica.

UTICA, N. Y.—Utica Gas & Electric Co., is stated to have under consideration plans for the construction of a large storage reservoir on the West Canada Creek, near Hinckley.

JERSEY CITY, N. J.—Contract for laying new water mains in this city is stated to have been let to J. Roosevelt Shanley for $107,667.

Contract for erecting two steel water tanks for Central Railroad of New Jersey at Communipaw has been let to Banks, Moore & Co., 133 Liberty St., New York, for $15,000.

EBENSBURG, PA.—Viaduct Water Co. has been chartered with $5,000 capital. John W. Kephart and P. J. Little, Ebensburg, are interested.

HASTINGS, PA.—Melboy Water Co. has been chartered with $5,000 capital.

HASTINGS, PA.—Bids are asked by Water-Works Board, E. J. Williams, Secy., until Sept. 20 for material and construction of water-works. Work will require about 265 tons of c. i. pipe, 3.5 tons of special castings; 20 fire hydrants; about 19 valves and boxes; a reservoir of about 180,000 gallons capacity; a brick-lined well having a depth of 30 ft. and an internal diameter of 15 ft.; a frame pumping station; and a pump having a capacity of about 400 gallons per minute.

JAMESTOWN, PA.—We are informed that proposed new municipal water supply is to be obtained from springs 4,500 ft. distant from town at est. cost of $17,000. Work will require 2,600 ft., 6-in., and 10,505 ft., 4-in. cast-iron pipe, 3,100 ft. 6-in., and 1,800 ft. 3-in. vitrified pipe, 12 4-in. valves, five 6-in. valves, 100,000-gallon steel tank and 23 fire hydrants. Nothing definite as yet has been decided; estimate slightly exceeds amount of allowable bonds, and nothing probably will be done until new valuation is assured next year. W. H. Waugh, Greenville, Pa., is Des. Engr.

LEBANON, PA.—City may vote Nov. 8 on $165,000 bond issue for construction of additional pipe line from city to its supply dams.

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QUARRYVILLE, PA.—Quarryville Water Co. has secured tract of land on which it will erect pumping station to supply this place with water.

WILMINGTON, DEL.—Bids are asked by Water Commissioners until Sept. 26 for building filtration plant and extensions of water supply system. The work will be subdivided in seven contracts as follows: Sedimentation basin, 21,000,000 gallons capacity; six filter beds of about ... acres, and pumping station; 2,200 ft. of 72-in. concrete conduit; 9,300 ft. of 66-in. concrete conduit; 4,950 ... of 66-in. conduit in tunnel; 4,370 ft. of 48-in. iron or steel pipe; intake crib and gate house; two 16,000,000 gallon centrifugal pumps and engines; two 200 HP. boilers and all other machinery; supplying about 2,500 tons of cast iron pipe and specials, and alternative bid for 3,800 ... of 49-in. riveted steel pipe; supplying 88 gate valves, sluice gates and special valves from 6-in. to 48-in.; 10,-000,000 gallons clear water reservoir; one Custodis stack 25 ft. high. Theodore A. Leisen, Ch. Engr.

WASHINGTON, D. C.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for furnishing about 4,300 tons cast iron pipe and special castings for use for Panama Canal work. Bids are asked by Isthmian Canal Commission until Sept. 21, as advertised in Engineering News.

DANVILLE, VA.—Contract for 2,000,000 gallon filter plant to be erected on foundation laid by city at new pumping station is stated to have been let to Pittsburg Filter Mfg. Co., Pittsburg, Pa. Cost is not to exceed $10,000.

COLUMBIA, S. C.—Referring to proposed municipal water-works we are informed that committee of experts are to meet in Columbia, Sept. 23 to decide on a soure of supply, and on their decision will depend the cost of the work. T. H. Gibbs is Mayor.

ATLANTA, GA.—It is stated that Park Woodward, Mgr. W.-W., will recommend in his report the coagulating system of preliminary filtering used by the Chattahoochee water-works as the best relief for Atlanta under the present conditions.

BRISTOL, TENN.—Council has passed ordinance granting James P. Herdic, of Canton, Pa., and associates, a franchise for water-works. It is proposed to obtain a supply from Holston Mountain and to pump the water to Bristol. A pumping station will be erected on the Holston River in connection with which will be an electric plant.

NASHVILLE, TENN.—New York Continental Jewell Fitration Co. is stated to have submitted tentative proposition to Council for installing filtration plant for city.

BEREA, KY.—Gleaves & Co., Lynchburg, Va., at $38,-010, are stated to be lowest bidders Sept. 3 for constructing water-works for Berea College. Supply is to be from springs five miles distant.

LOUISA, KY.—Louisa Water Co. of Lawrence County, has filed articles of incorporation. Company has $15,000 capital and W. B. Cox, Pikeville, Ky., is interested.

LOUISVILLE, KY.—Louisville Water Co. has let last of contracts necessary for construction of Crescent Hill filtration system to National Concrete Construction Co., Louisville. Contract calls for erection of engine and boiler houses, and contract price is $64,000.

COVINGTON, KY.—City may lay main at cost of about $10,000 from Metcalfe Hill to supply County Infirmary and Cold Spring Orphan Asylum.

CINCINNATI, O.—Following bids were received by Trustees Water-Works Sept. 9 for completing construction of settling reservoirs and the laying of pump mains and miscellaneous work in connection: Western Construction Co., $1,148,089; Keeling & Ridge, Pittsburg, Pa., $719,821; F. H. Kirchner, Cincinnati, O., $911,465. Itemized bids for above work will be given under Contract Prices Sept. 22.

COVINGTON, O.—We are informed that contract will be let Oct. 12 for construction of water-works for this place to cost $30,000. Work will require two pumps of 750,000 gallons each, 50,000 gallon tower, 450 tons pipe, eight tons specials, 50 hydrants, two 80-HP. boilers, etc. Work was mentioned in our issue of Sept. 1. C. O. Lucas, Greenville, O., is Engr.

ELYRIA, O.—Board Public Service has asked for $50,-000 appropriation for new pump at pumping station.

MAUMEE, O.—Bids are asked until Oct. 10 for constructing and operating a water-works system, consisting of 41,765 ft. of 4-10-in. cast iron mains, 50 4-in. hydrants, 2 pumps of 750,000 gals. capacity, each, in 24 hours, one pump house and all necessary valves, special castings, wells, motors, engines, boilers, etc. Watson Richardson, Village Clk. (Advertised, Engineering News.)

MOUNT HEALTHY, O.—Special election is to be held Oct. 8 to vote on bond issue of $28,000 for erecting village water-works.

PORTSMOUTH, O.—We are informed that City Council Water Committee, J. W. Smith, Chn., is just beginning an investigation look'ng to new city water system. An engineer will be employed to suggest practical plan and cost of same.

WAYNESBURG, O.—Bids are asked by Board of Trustees of Public Affairs until Sept. 22 for furnishing material and labor for construction of the following portions of the proposed water-works plant: 3,010 ft. of 4-in. pipe, 4,390 ft. 6-in. pipe, 1,550 ft. 8-in. pipe, and for 6,220 lbs. special castings, also for the laying of such pipe and the setting of all hydrants, valves, and valve boxes, also for the furnishing and delivery f. o. b. Waynesburg of 19 nozzle fire hydrants and eight 4-in., four 6-in. and two 8-in. valves, and the necessary iron boxes for the same, also for the construction of a concrete or brick reservoir on Reservoir Hill. Chapin & Knowles, Engr., 15 Central Savings Bank Bldg., Canton, O. Philip Elsass, Clk.

FORT WAYNE, IND.—City is considering means for securing increased water supply.

GRAND RAPIDS, MICH.—Pere Marquette R. R. Co. has asked city for extension of 12-in. main from Hall St. to its new shops, and will, it is stated, put up $12,0 0 deposit with which Board Public Works can do the work.

MOLINE, ILL.—Contract for two 150-HP. boilers for city water-works has been let to Aultman & Taylor Machinery Co., Mansfield, O., for $3,995.

SPRING VALLEY, ILL.—Bids are asked until Sept. 29 for furnishing and erecting complete, with foundation, one steel stand-pipe 22 ft. in diameter and 100 ft. high. Anton Falletti, Cy. Clk. M. A. Earl, Consult. Engr., 1416 First National Bank Bldg., Chicago. (Advertised, Engineering News.)

KIEL, WIS.—Plans and specifications are on file at offices of Engineering News, Monadnock Block, Chicago, Ill., and 220 Broadway, New York, for material and labor for laying water mains, sinking well, and constructing sewers for this city. Bids are asked until Sept. 27, as advertised in Engineering News.

MENASHA, WIS.—City Engineer, according to reports, will prepare plans for water-works plant to cost about $50,000.

TURTLE LAKE, WIS.—Water-works agitated.

SOUTH MILWAUKEE, WIS.—Bids are asked until Sept. 20 for enlarging and extending the water-works pumping station and making necessary repairs to same, and furnishing materials for such work; furnishing about 300 lin. ft. of 18-in. cast iron pipe with necessary special castings, and place the same in proper position; furnishing one compound condensing duplex steam pump, 1,500,-000 gallons capacity, with condenser, valves, steam piping and fittings, and install the same. George W. Sturtevant, Consult. Engr.; 1208 Fisher Bldg., Chicago, Ill.; Joseph Saxler, Cy. Clk.

SPOONER, WIS.—Village voted Sept. 14 on bonding for $11,000 with which to put in water-works.

CLARION, IA.—City votes to issue $15,000 of bonds for water-works.

HAWKEYE, IA.—Bids are asked by the Town Clerk until Sept. 20 for construction of water-works. M. Tschirigi, Consult. Engr., Dubuque, Ia.

OSCEOLA, IA.—Sheely & Smith, Osceola, have contract for putting in four blocks of 6-in. water mains for this city.

ST. PAUL, MINN.—Water Commissioners are to lay mains in Laurel Ave. between Dunlap and Syndicate, on Sylvan, between Syndicate and Acker, and on Acker, between Dawson and Francis.

KANSAS CITY, KAN.—Geo. B. Inman, Consult. Engr., Dwight Bldg., Kansas City, Mo., has asked water-works franchise in this city.

BEEMER, NEB.—Town is reported to have voted to issue bonds for water-works.

OSCEOLA, NEB.—Town votes to bond for $25,000 for putting in water-works.

FORT MEADE, S. DAK.—We are informed that all bids received Aug. 18 for constructing concrete reservoir for Fort Meade were rejected as being too high. Contract for water systems was let to Dwyer Plumbing & Heating Co., St. Paul, Minn., for $26,000.

Bids are asked until Sept. 30 for constructing a 500,000-gal. reinforced concrete reservoir. Geo. L. Byram, Con. Q. M. (Advertised, Engineering News.)

GREAT FALLS, MONT.—Contract for steel storage stand pipe, 40 ft. diameter, 60 ft. high has been let to Chicago Bridge & Iron Co., Chicago, Ill., for $11,713. Bids were received Sept. 5. D. L. Ellis is Cy. Engr.

COLUMBIA, MO.—We are informed that proposed improvements will require one air compressor, air lift plant of 5,000,000 gallons daily capacity, 500,000-gallon pumping engine, 1,500 tons pipe, 1,000,000-gallon stand-pipe, 600-HP. boilers, 500,000-gallon well pumps, hydrants, castings and three 800-ft. deep wells. A building will be erected for electric plant of capacity of 5,200 lights; steel stack will also be erected. Board Public Works, W. H. Cook, Chn., is in charge.

BEAUMONT, TEX.—Southern Pacific Ry. Co. has applied to council for right of way for its pipe line to the railroad yard, and will, it is stated, install its own water-works.

SULPHUR, IND. T.—Improvements, which include piping of water from head of Sulphur Creek and construction of reservoir will be made, it is said, as soon as appropriation becomes available. J. F. Swords is Supt.

CANON CITY, COLO.—Interstate Artificial Granite Co., represented by N. G. Hammon, Colorado Springs, Colo. is stated to have secured a $65,000 contract for construction of a concrete water main to carry the waters of the Cripple Creek deep drainage tunnel from camp to the vicinity of Canon City, where they will be used for irrigation purposes. The main will have an inside diameter of 3 ft.

DENVER, COLO.—Permit has been issued to Denver Union Water-Works Co. to construct 30-in. main in Boulevard F, from West Colfax to W. 29th Aves.

SOCORRO, N. MEX.—It is stated the people of Socorro, N. Mex., will organize a water users' association and hope soon to install a pumping plant for irrigation purposes.

BALLARD, WASH.—City voted Aug. 20 on $25,000 bond issue for extending water mains.

GRESHAM, ORE.—City may obtain supply by tapping Bull Run main of Portland. About 2,300 ft. of pipe would be required and est. cost is about $2,500.

GLENDORA, CAL.—A meeting has been held by the members of several water companies interested in the San Dimas wells to consider a system for storage of storm waters of the canon. It is expected they will all join in incorporating. The Covina Irrigation Co., the Citrus Belt Co., and Glendora Water Co. are among those interested.

OCEAN PARK, CAL.—Ocean Park Improvement Co. is stated to have decided to install electric motive power in its water pumping plant.

REDWOOD CITY, CAL.—Town voted Sept. 14 on issuing $100,000 of bonds, $35,000 of which is for municipal water-works. D. R. Stafford is Town Clk.

SAN BERNARDINO, CAL.—We are informed that construction work on the plant of the Arrowhead Reservoir Co. in San Bernardino County, has been resumed after several years of apparent inactivity. These years have been most usefully employed in carrying on an elaborate series of observations of precipitation and run-off on the shed from which its water supply is to be derived, and incidentally in boring and lining 9,000 ft. of tunnels in the outlet system. The plant is designed to impound the flood water from the upper reaches of the Mojave River in a reservoir in Little Bear Valley, on the northern slope of the San Bernardino Range, carrying it through a system of tunnels and conduits to the south slope and dropping it 3,000 ft., through three power stations, to the San Bernardino Valley, where it will be used for domestic and irrigation purposes. The reservoir will be created by constructing a dam of earth and rock, with a core wall of concrete. This core will be 20 ft. thick from base to surface of the ground, battering to 3 ft. at high water. The earth filling will have slopes of 2½ to 1 on both sides, upper slope riprapped. The crest will be 20 ft. wide and about 800 ft. long, 15 ft. above high water. Excavation for foundation of core wall has revealed excellent bed-rock. It is expected to raise this wall to a height of 12 ft. above the creek bed this season and later to continue it just in advance of the earth filling, of which there will be approximately 1,000,000 cu. yds. When filled the reservoir will have a surface area of 980 acres and will contain 74,000 acre ft. of water. A depression in a ridge ¾-mile from the dam, will be utilized for a spillway, discharging into another stream. The site is being thoroughly cleared of everything which might polute the stored water. Present plans involve the construction of over seven miles of tunnels, and about 13 miles of concrete conduits, about 2½ miles of pressure pipe, power stations and an extensive distributing system. About four years will be required to complete the work. The officers of the company are: President, James N. Gamble, Cincinnati, O.; Chairman of Executive Board, James E. Mooney, Cincinnati; General Manager, Victor C. Smith; Chief Engineer, E. H. Kellogg, with general offices at San Bernardino, Cal.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

SEBASTOPOL, CAL.—E. B. Glatz, Construction Engr., Pacific States Pipe Works, Oakland, Cal., is to furnish trustees with estimates of probable cost of constructing a system whereby the water on the Crystal ranch, a few miles from Sebastopol, may be brought into the city for use for all purposes, including sewer. It is proposed to construct a pumping station and a reservoir that shall give the water a fall of 120 ft.

VALLEJO, CAL.—Benicia Water Co., according to reports, proposes to expend about $100,000 next year, in improving its system.

PRESCOTT, ARIZ.—Following bids were received by Capt. Chas. O. Walcutt, Jr., C. Q. M., Whipple Barracks, for construction, etc., of distributing system and reservoir: (1) distributing system, (2) reservoir, (3) reservoir and system together: Geo. F. Duffey, 1131 Market St., San Francisco, Cal., (1) $19,900; Fifield & Gallagher, Phoenix, Ariz., (1) $25,914, (2) $17,584, (3) $42,399; C. H. Miller, 330 Pine St., San Francisco, Cal., (1) $17,922; R. C. Mattingly, 1910 Gree St., San Francisco, Cal., (1) $19,-900, (2) $8,000, (3) $25,422. Bid of Fifield & Gallagher for reservoir was conditional upon receiving contract for distributing system.

PHOENIX, ARIZ.—Frank C. Kendrick, Denver, Colo., is stated to have begun surveys for proposed $6,000,000 irrigation reservoir of Verde Water & Power Co., which is to be constructed near here. Reservoir is to have a length of ten miles and will be from one to three miles wide, and will require construction of 200 ft. high, 1,100 ft. long dam. Electrical energy will also be developed. Verde Water & Power Co. is stated to have local office in this city.

HEBER, UTAH.—Contract for pipe and fixtures for new city water system has been let to Crane & Co., Salt Lake City, Utah.

FORT WILLIAM, ONT.—City voted Sept. 7 on raising $12,000 for extending and improving water-works.

EAST TORONTO, ONT.—Contract for constructing water-works system for this place is stated to have been let to McQuillan & Co., 1459 Queen St., West, for about $19,000.

GRIMSBY, ONT.—Bids are asked until Sept. 26 for constructing system of water-works for this town. Work will be subdivided as follows: Labor on pipelaying, pump house, masonry for reservoir, cast-iron pipes and specials, fire hydrants and valves, pumping machinery. Willis Chipman, Engr., 103 Bay St., Toronto, Ont. James Brodie, Village Clk.

CREEMORE, ONT.—Bids are asked until Sept. 19 for furnishing and laying 15,000 ft. cast-iron water mains, and all necessary special castings, valves and hydrants. John Galt, Engr., Toronto, Ont. A. H. Watson, Clk.

VANCOUVER, B. C.—City Engineer is reported to have recommended following work: New cast iron mains throughout the city, $25,000; 12,000 ft. of 12-in. pipe around head of False Creek to Mount Pleasant, $21,000; specials, valves and hydrants, $5,000; main for Narrows, $8,000; reservoir, $30,000; new services, $10,000; small pipe for temporary extensions, $5,000.

SEWERAGE.

WARNER, N. H.—Lloyd & Mann, Civil Engrs., Concord, write that work has been begun on outlet sewer of proposed system for northern part of this village. Work is being done by day labor.

MARBLEHEAD, MASS.—Sewer system is under consideration. Willard J. Goldthwait is Chn. Com.

QUINCY, MASS.—Sewer Commission has asked council for $22,000 appropriation for continuation of sewer extensions.

WOONSOCKET, R. I.—Frank H. Mills, Cy. Engr., informs us that D. E. Coleman, 614 Pemberton Sq., Boston, was awarded contract, at $5,655, for portion of sewer construction in Sayler, Jefferson, Hope, St. Olo, East, Bemus and Center Sts. Other contracts were awarded as follows: D. J. Sheehan, 585 Western Ave., Lynn, Mass., $3,350; D. J. Sheehan, Sayler St., pipe, with siphon under Blackstone River, $7,140.

BRIDGEPORT, CONN.—The Pierce Mfg. Co., Bridgeport, was awarded contract for constructing sewers in Huntington Road for about $14,107. Work requires 1,-600 ft. 48-in. brick sewer, 200 ft. of manholes, two catch-basins, 30 ft. 8-in. cement pipe, 10 yds. rock excavation, and 50 6-in. slants. Bids were received Aug. 31.

DANSVILLE, N. Y.—Knight & Hopkins, Engrs., Rome, N. Y., inform us that six bids were received for construction of sewage disposal works and sewerage system on Aug. 31, as advertised for in Engineering News. Eveline & Baltimore, the lowest bidders, were awarded the contract, at $78,000.

ONEIDA, N. Y.—Bids are asked until Sept. 20 by Charles M. Ruggles, Cy. Clk., for construction of vitrified stoneware pipe sewers. G. L. Scheifele is Mayor.

LANCASTER, PA.—$250,000 of sewer improvement bonds have been sold.

ALTOONA, PA.—Bids are asked until Sept. 16 by Committee on Highways and Sewers for constructing vitrified clay pipe sewers in portions of several streets; also for grading and protection by retaining walls, where required of a storm water channel, 12 ft. wide on bottom, from 26th and Dysart Sts., a distance of about 878 ft. Also for constructing a reenforced concrete storm sewer, the cost of which is not to exceed $10,000. W. J. Hamor, City Clk. Harvey Linton, Cy. Engr.

NORRISTOWN, PA.—Bids are asked until Oct. 3 for construction of 8-in. salt glazed vitrified pipe sanitary sewers, with laterals, etc., on portions of several streets. W. J. Wells, 1221 Arch St., is Chn. Sewer Com. S. Cameron Corson, Boro. Engr.

SCRANTON, PA.—Bids are asked until Sept. 17 for construction of portions of sewers. B. T. Jayne, Dir. Dept. Pub. Wks.

LOCKPORT, N. Y.—Bids are asked until Sept. 19 by H. D. McNeil, Cy. Clk., for 540 ft. of 10-in. pipe sewer and construction of a sewer in Jackson St.

NEW YORK, N. Y.—Bids are asked until Sept. 21 for construction of several sewers and for rebuilding and repairing others. John F. Ahearn, Boro. Pres.

NEW YORK, N. Y.—Bids are asked until Sept. 26 for building sewers in portion of Morris Ave. and in portion of Grand Boulevard and Concourse. Louis F. Haffen, Pres. Boro. Bronx.

ORADELL, N. J.—Bids were received on Sept. 6, as advertised for in Engineering News, for building a sewer system in Delford Borough. Lowest bid received several weeks ago was $45,735. Revised bids were as follows: A. Costa, Orange, $42,073; Harrison Construction Co., Newark, $41,658; E. C. Humphrey, Hackensack, $39,784; Stone, Grossart & Co., Philadelphia, $37,780; D. Fusco, Montclair, $37,372; D. V. Ault, Philadelphia, $34,122; De Vogel & Collins, Passaic, $34,103; Union Building & Construction Co., Passaic, $32,610. Contract not yet awarded.

WEST WASHINGTON, PA.—Borough is ready for bids on building vitrified tile sewer on Chestnut St. and McCarrell Ave.

WASHINGTON, D. C. (Takoma Park Station.)—Town Council has passed ordinance providing for new sewers. Estimated cost, $5,000. J. B. Kinnear is Mayor. Ben. G. Davis is Town Clk.

WASHINGTON, D. C.—D. E. McComb, Supt. Sewers, informs us that bids were received on Sept. 12, as advertised for in Engineering News, for portion of sewage disposal system in 4½ and L Sts., as follows: The J. Connelly Construction Co., Cleveland, O., $40,138; J. H. Louchheim, Philadelphia, $41,119; Sullivan Bros., Philadelphia, $42,315; Lyons Bros., Washington, $51,414.

EMPORIA, VA.—Bids are asked until Sept. 29 by Council for constructing a sewer system.

NASHVILLE, TENN.—Jeff Davis was lowest bidder for building Sandy Bottom sewer extension, at $4,731. J. T. Allen & Co., lowest bidders on Fairfield Ave. extension, at $1,000.

NASHVILLE, TENN.—The Retail Merchants' Association has come out in favor of the issuance of $1,000,000 bonds by the city for extension of sewer and water main systems, and will urge the state and city authorities to take up matter of securing better water. H. E. House is Chn. Legislative Com.

LAUREL, MISS.—C. M. Rubush, Meridian, Miss., was low bidder Sept. 2, at $13,996 for constructing sewer system in this place. Itemized bids are given under Contract Prices.

OWENSBORO, KY.—Henry W. Eigenmann, of Rockport, Ind., has been awarded contract for sewer work, at $2,887.

ZANESVILLE, O.—Ott Bros., Pittsburg, were awarded contract, at $61,696, for construction of sewers in the sewer system for northwestern sewer district No. 4. H. W. Snoots is Secy. C. H. Bogman is Cy. Civ. Engr.

CANTON, O.—Contract for 15¾ miles of sewers was let to Ott Bros., Pittsburg, at $50,522. Charles Zellars is Clk. Bd. Pub. Wks. Phil. H. Weber is Cy. Engr.

WARREN, O.—Council has adopted resolution to construct a 12-in. sewer in Dickey Ave. and a 12-in. sewer in East Market St., also a 12-in. sewer in Blaird Ave.

DAYTON, O.—Bids are asked until Sept. 20 for construction of storm water sewers in Neal and Bellevue Aves.; about 1,150 ft. of 12 to 30-in. pipe. Louis Haas, Pres. Bd. Pub. Service. Wm. F. Miller, Clk.

DAYTON, O.—$5,000 has been appropriated for building sewer in Fifth and Howard Sts. Bids are asked for this work. Calvin D. Wright is Pres. Council.

SOUTH BROOKLYN, O.—Bids are asked until Oct. 10 for purchase of $25,000 of sewer bonds. W. T. Pupikofer, Village Clk.

YOUNGSTOWN, O.—Bids are asked until Sept. 20 for construction of a sewer in Hayman St. G. Prosser, Clk. Bd. Pub. Service.

GRANDVILLE, O.—Ordinance for construction of a sewer system is before the Council.

WABASH, IND.—Bids are asked until Sept. 26 by Council for constructing a local sanitary sewer in a portion of Manchester Ave., also for other sewer work. Freemont McLees is Cy. Clk.

MUNCIE, IND.—Bids are asked until Sept. 26 for constructing a sewer in a portion of Hackley St. R. G. Hickok, Cy. Clk.

LAFAYETTE, IND.—Bids are asked until Sept. 26 for constructing a 30-in. sewer in a portion of Union St. Chas. F. Williams, Jr., Cy. Clk.

FLINT, MICH.—Bids are asked until Sept. 19 for extending Haskell marsh brick sewer a distance of 623 ft. D. E. Newcombe, Cy. Clk.

DETROIT, MICH.—Department Public Works has awarded contract for sewer in Orleans St. and Mack Ave. to John Jeynes, 399 Avery Ave., at $11,091, and for sewer in Iroquois and Chippewa Aves. to Julius A. Porath, Michigan Ave., at $10,453.

SPRINGFIELD, ILL.—Arthur Hay, Secy.-Engr., Pleasure Driveway and Park Dist., informs us that Bretz & Irwin, of Springfield, were awarded contract, at $18,074, for 4,000 ft. of 5-ft. brick or concrete sewer.

HIGHLAND PARK, ILL.—Contract for construction of a septic tank was awarded to G. G. O'Herrin, 419 South Troy St., Chicago.

MORTON PARK, ILL.—Bids are asked by Timothy J. Buckley, Secy. Bd. Local Improvements, of the town of Cicero, 5303 Fyffe Ave., Morton Park, until Sept. 22, for construction of pipe sewers in various streets.

MORRISON, ILL.—Bids are asked by sewer committee of council until Sept. 17 for approximately 1,485 lin. ft. of 12-in., 1,878 lin. ft. of 10-in. and 230 lin. ft. of 8-in. pipe sewer, eight manholes, two catch basins and eight lamp holes. Dr. D. B. Seger, Chn. Com. Edw. O. Hills. Pub. Engr.

ROCKFORD, ILL.—Contracts were let to G. Maffioli for sewers as follows: Maple St., at $1,292; Forest Ave., $1,681; Haskell Ave., $1,137. S. Vandewalker, Bellvidere. contract for Benton St., at $1,229.

OTTAWA, ILL.—Board of Local Improvements has recommended building sewer in Ottawa Center at estimated cost of $12,948.

KIEL, WIS.—Plans and specifications for constructing 4,286 ft. of 10 and 12-in. sewers, and for laying water mains, etc., are on file at offices of Engineering News, Monadnock Block, Chicago, Ill., and 220 Broadway, New York. Bids are asked until Sept. 27, as advertised in Engineering News.

ST. PAUL, MINN.—P. J. Ryan, St. Paul, was awarded contract for sewer in Water St., at $6,260, also for a sewer in Western Ave., at $1,480. Christ Johnson was awarded the contract for Woodbridge sewer system, at $12,896.

OMAHA, NEB.—Bids are asked until Sept. 16 for construction of sewer in sewer district 298. Andrew Rosewater, Chn. Bd. Pub. Wks.

MILBANK, S. DAK.—Contract for constructing sewers in sewer district No. 1 was let to the Sioux Falls (S. Dak.) Construction Co. at $12,267. Ed. P. Dore, Cy. Audr. Loweth & Wolff, St. Paul, Minn., are Engrs.

"WANT"
Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" or "Open," and 2 cts. a word for "Miscellaneous Wants." At least read them each week.

HAVRE, MONT.—Bids will be received on Sept. 15, as previously noted, for building sewer system. Sewers will be constructed under special improvement law. System aggregates about three miles. Estimated cost, $32,000.

ST. LOUIS, MO.—Bill is before House of Delegates, providing for issuance of $9,000,000 bonds for municipal improvements. $2,000,000 is included for construction and extension of public sewers including purchase of land for purpose.

ST. JOSEPH, MO.—It is said that ordinances have been approved appropriating money for sewers, as follows: $30,000 to extend Grand Ave. main sewer; $2,500 to connect Highland Ave., Grand Ave. and Blacksnake sewers; $60,000 to extend Blacksnake sewer; $18,000 to extend Sycamore St. sewer; $60,000 to extend Mitchell Ave. sewer; $75,000 to construct main sewer in South St. Joseph; $10,000 to extend Wyatt Park main sewer; to construct a lateral sewer in District No. 33. Bids may be advertised for this work about Oct. 1, as final action by Council will be taken on Sept. 26.

OKLAHOMA CITY, OKLA.—City will vote on Nov. 8 on issuance of $350,000 bonds for sewers and water-works.

OKLAHOMA CITY, OKLA.—Bids are asked until Sept. 17 for building sewers in portions of several streets. T. A. Blaise, Cy. Clk.

WEATHERFORD, TEX.—$25,000 sewer bonds were voted at recent election.

TAYLOR, TEX.—City has granted franchise to John Andrewartha, representing the Cameron Septic Tank Co., of Chicago, for a sewer system here.

NEODESHA, KAN.—We are informed that bids are asked for construction of sanitary sewers until Sept. 20. Plans and specifications may be had upon application to the City Clerk. Plans and specifications also on file at the office of Burns & McDonnell, Consulting Engrs., Kansas City, Mo.

MUSKOGEE, IND. T.—We are informed that Burns & McDonnell, Civil, Hydraulic and Sanitary Engrs., of Kansas City, Mo., have been appointed to prepare plants and specifications for extensions to water-works and sewer systems, for which $100,000 was voted Sept. 1.

LOS ANGELES, CAL.—Bids are asked until Sept. 19 for construction of Sec. 1 of West Los Angeles main sewer. Each bidder is required to make personal examination of the ground in which the sewer is to be constructed. Approximate quantities: 30-in. vitrified sewer pipe, double strength, 1,500 ft.; 30-in. vitrified sewer pipe, standard, 1,155 ft.; 24-in. vitrified sewer pipe, standard, 9,184 ft. H. J. Lelande, Cy. Clk. Estimated cost, $150,000.

SACRAMENTO, CAL.—Corporation Counsel D. L. Donnelly has presented preliminary ordinance of intention to construct levees and sewers at cost of $165,000. It was adopted.

SEATTLE, WASH.—R. H. Thompson, Cy. Engr., has submitted estimate of funds needed by his department for ensuing year. It is estimated that it will cost $64,750 to construct certain main sewers and tunnel outfalls and $25,000 to construct septic tanks.

GARBAGE DISPOSAL—STREET CLEANING

ELMIRA, N. Y.—Council Garbage Committee is stated to have decided to accept bid of Clinton Foundry Co., New York, of $16,277 for installing garbage disposal plant. I. H. Levy is Cy. Clk.

NEW YORK, N. Y.—John McGaw Woodbury, Comr. Street Cleaning, has asked an appropriation of $6,519,971 for use of his department in 1905. This is an increase of $1,104,659 over 1904.

HORNELLSVILLE, N. Y.—Charles O. Green, Health Officer, is reported to be advocating construction of garbage crematory for this place.

CRAFTON, PA.—Bids are asked by W. O. H. Elliott, Borough Clk., until Sept. 20 for construction of garbage plant; bids to include furnace, brick building and brick stack. Bids for this work were previously called and opened Sept. 6, and at that time but one proposal was received.

PHILADELPHIA, PA.—Following bids were received Sept. 1 for collecting and incinerating garbage: American Product Co., entire city, $623,000; 1st district, $103,000; 2d district, $120,000; 3d district, $105,000; 4th district, $150,000; 5th district, $145,000. Harmer & Quinn, entire city, $816,000; 1st district, $145,000; 2d district, $171,500; 3d district, $182,000; 4th district, $249,000; 5th district, $229,000. Baltimore Sanitation Contract Co., 3d district, $99,400. For cleaning streets bids were received as follows: New specifications—E. H. Vare, entire city, $981,900; 1st district, $159,000; 2d district, $224,000. R. P. Bennis, 3d district, $212,000; 6th district, $37,000. David McMahon, 5th district, $227,000. Jas. A. Mullen, 3d district, $123,000. Howard E. Ruch, 4th district, $334,000. David Peoples, 3d district, $187,000; 5th district, $230,000. John Laughlin, 4th district, $278,000. Jas Curran, 3d district, $270,000; 4th district, $334,000; 5th district, $250,000. Old specifications—E. H. Vare, entire city, $950,000; 1st district, $154,000; 2d district, $219,000. Harmer & Quinn, entire city, $990,000; 1st district, $168,779; 2d district, $223,837; 3d district, $111,850; 4th district, $243,750; 5th district, $208,775; 6th district, $33,100. R. P. Bennis, 3d district, $190,000; 6th district, $30,800. David McMahon, 5th district, $214,900. J. A. Mullen, 3d district, $116,000. Howard E. Ruch, 4th district, $269,000. David Peoples, 3d district, $163,000; 5th district, $218,000. John Laughlin, 4th district, $243,974.

DES MOINES, IA.—It is stated that James E. Miller, Cy. Physician, will recommend the establishment of city garbage crematory.

SEATTLE, WASH.—R. H. Thomson, Cy. Engr., is stated to have recommended that city raise $30,000 for building garbage crematory on the tide flats.

LONDON, ONT.—Installation of garbage crematory is considered by city council.

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STREETS AND ROADS.

SALEM, N. H.—Edward Adams of 53 Milk S[illegible] Dover, Mass., has secured the contract for building [illegible] mile of macadam road on the old Lawrence turnpike [illegible] Salem, to start at the New Hampshire state line. [illegible] F. Searles bears the expense of construction. [illegible] possible that other roads will be improved.

LOWELL, MASS.—The street committee h[illegible] recommended $25,850 for the repairing of two street[illegible] one bridge as follows: To pave Market St. with tar [illegible] macadam, $15,150. To pave Kirk St. with tar macadam, [illegible] To pave Aiken St. bridge with wooden blocks, $8,[illegible]

BOSTON, MASS.—Bids are asked by Metropolitan Park Commission until Sept. 19 for grading Furna[illegible] Brook parkway. The estimate of work is approximate[illegible] follows: 10,000 cu. yds. earth grading; 18,000 cu. y[illegible] material to be furnished by contractor; 1,985 lin[illegible] pipe culvert of following sizes; 500 lin. ft. 12-in., [illegible] ft. 15-in., 200 lin. ft. 18-in., 110 lin. ft. 20-in., [illegible] ft. 24-in., 90 cu. yds. stone masonry of following [illegible] 40 cu. yds. first-class, 50 cu. yds. third class; [illegible] cu. yds. concrete masonry, 1 12-ft. concrete-steel [illegible] ft. in length. Specifications and plans may be seen [illegible] the office of the engineering department, 14 Beacon St. [illegible] Wm. T. Pierce, Engr.

SOUTH HADLEY, MASS.—The state highway commission awarded to Childs & Dayton of Northampton the contract for constructing about 3,900 ft. highway [illegible] this place, for $8,239.

SPRINGFIELD, MASS.—It is the intention of Board of Supervisors to pave Main St. with wood blocks, from Pynchon St. to State St., this fall, instead of stopping the work at Pynchon St., as has been the recent plan.

MEDFORD, MASS.—It is reported that work on the boulevard between Cradock bridge and Mystic lakes will be begun this fall. The boulevard when completed will be two miles long.

CHATHAM, CONN.—Highway Commissioner Macdonald has awarded to C. W. Tyron of Meriden the contract for 1,000 ft. macadam road, 1,700 ft. gravel with telford base and 1,830 ft. grading, in the town of Chatham, at a total expense of $5,192.

PUTNAM, CONN.—Bids are asked by Board of Selectmen until Sept. 16 for grading and construction of a section of gravel-telford road. Plans and specifications may be seen at the Selectmen's office or at office of State Highway Commissioner in Hartford.

MADISON, CONN.—Bids are asked by Board of Selectmen until Sept. 21 for construction of a gravel road. Plans and specifications may be seen at office of Town Treasurer, or at office of State Highway Commissioner at Hartford.

LONG ISLAND CITY ((L. I.), N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. Queens, until Sept. 20 for grading and repaving with macadam on Merrick road; requiring about 22,000 sq. yds. of macadam, 1,200 sq. yds. old stone pavement to be relaid as foundation or in approaches, etc.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Boro. Pres., until Sept. 28 for regulating and repaving with asphalt on concrete foundation several roadways.

HAZLETON, PA.—The ordinance providing for the macadamizing on Board, Beech and North Church Sts. has been passed by the Council.

PITTSBURG, PA.—The following bids were received and contracts awarded by County Commissioners for constructing (a) Logans Ferry road, 3 miles; (b) Brownsville, 4½ miles, and (c) West View, 2 miles: (a) J. C. McSpadden, $36,445 (awarded contract); Booth & Flinn, City, (a) $42,971, (b) $52,283, (c) $18,289 (awarded contract); Dinlus & Bro., (a) $56,683, (b) $67,410; W. E. Howley, (a) $40,848, (b) $58,141 (c) $40,379; Howley Const. Co., (a) $50,152, (b) $68,867, (c) $32,150; Keeling & Ridge Co., (a) $72,161, (b) $77,144, (c) $30,321; Foley Bros., (b) $49,901 (awarded contract); Jacob Mensenger, (b) $94,500.

Booth & Plim, City, were awarded the contract at $35,000 for macadamizing the state road in Hickory township, Mercer County, Pa.

PITTSBURG, PA.—The Grand Jury has recommended the macadamizing of Mount Lebanon and Dinsmore County roads, consisting of about three miles.

WEST WASHINGTON, PA.—Large amount of brick paving will be done by borough this fall. Engineer is Wm. Wylie, 131 Jefferson Ave., Washington, Pa. Borough will soon advertise for bids.

Borough will improve parks, expending $20,000. Bids are now being taken.

FORT DU PONT, DEL.—Bids were opened Sept. 1 for a new road here, as follows: Christiana Construction Co., City, $8,600; Stewart & Donahoe, $11,401; T. H. Lyons, Brooklyn, N. Y., $11,462; J. J. Fitzpatrick, Plattsburg, N. Y., $13,999; D. Fitzgerald, $15,632. The bids will be forwarded to the War Department.

BALTIMORE, MD.—The Municipal Board of Awards has awarded the following contracts: Repaving Lamont Ave. with asphalt blocks, Maryland Pavement Co., at $2.30 per sq. yd.; macadamizing Chesapeake Ave., Hook & Fort Contracting Co., at 70 cts. per sq. yd.

WASHINGTON, D. C.—It is probable that the commissioners will reject all bids recently received for laying 10,000 sq. yds. pavement with bitulithic material, and that they will in open market let contracts to three or more companies for laying small areas of bituminous pavement for experimental purposes.

MONTGOMERY, ALA.—An ordinance to pave the sidewalks on both sides of Mildred St. with hexagon blocks was adopted by City Council.

MANSFIELD, LA.—We are informed that bids are being received by J. L. Williams, Mayor, for laying concrete sidewalks and curbing on Washington, Polk, Texas and Adams Sts.

NEW ORLEANS, LA.—Property owners and residents of Esplanade St. have petitioned the council for the resurfacing of that street with asphalt.

LOUISVILLE, KY.—The Board Public Works has ordered that work commence at once on Kentucky St. The street is to be asphalted for five blocks. The contracts were let to American Standard Asphalt Co. and the Barber Asphalt Paving Co.

WELLINGTON, O.—We are informed that bids will be received by F. A. Chapman, Village Clk., until Sept. 2[illegible] for about 6,500 sq. yds. brick pavement on concrete foundation. L. A. Fauver, Pres., Ohio Engineering Co., Elyria, is engineer.

ELYRIA, O.—Bids are asked by Board Public Service until Sept. 24 for laying stone flagging sidewalks. Rose Moriarty, Clk.

CLEVELAND, O.—The United States Wood Preserving Co. is the lowest bidder at $10,392, for the creosote paving blocks for Kingsbury run viaduct.

The lowest bidder for eliminating the grade at Detroit St. crossing of Nickel Plate Railroad was Williams Bros. & Morris, at $26,950.

COLUMBUS, O.—The Board Public Service awarded the contract for macadamizing Norwich Ave. to W. H. Luchtenberg, for $11,068. D. E. Sullivan & Son got the contract for paving Town St., for $17,700.

Council has passed a resolution to pave La Zelle St. and Ionis Ave., also to repair a section of High St.

YOUNGSTOWN, O.—Bids are asked by Board Public Service until Sept. 20 for paving of Watt St. Plans and specifications may be seen at office of City Engineer. G. Prosser, Clk.

BELLAIRE, O.—Board Public Service is considering the construction of a cement sidewalk through the city park.

CINCINNATI, O.—Bids are asked by Board Public Service until Oct. 5 for grading and macadamizing Kineon Ave.; also for grading, curbing and paving Providence St., with granite blocks.

Bids are asked until Sept. 21 for paving Carney St. with boulders. Geo. F. Holmes, Clk.

DEFIANCE, O.—Bids are asked by Board Public Service until Oct. 3 for grading and macadamizing of Francis St.

CINCINNATI, O.—The Blake Asphalt Maintenance Co. was awarded the contract for improving Main and Walnut Sts. with asphalt. The bids were: Main St., $16,962, and Walnut St., $14,713.

CINCINNATI, O.—Henkel & Sullivan were awarded the contract by Board Public Service for the repairing of Burbank St. for $4,880.

FINDLAY, O.—Bids are asked by Board Public Service until Sept. 20 for paving Clinton Court with vitrified block. J. C. Edie, Clk.

CELINA, O.—J. E. Conley, of Dayton, was awarded the contract for paving 32,000 sq. yds. of streets.

CAMBRIDGE, O.—All bids for paving of North Seventh St. have been rejected and the Board Public Service has decided to defer the paving until next year.

COLUMBUS, O.—Bids are asked by Board Public Service until Sept. 21 for grading and paving on Second Ave. Chas. H. Frank, Secy.

CINCINNATI, O.—Bids are asked by County Commissioners until Oct. 1 for repairs on Martin road, Columbia Township. Eugene L. Lewis, County Audr.

TOLEDO, O.—At a special meeting of the Council the final ordinance for repaving of Collinwood and Detroit Aves. was passed.

PETERSBURG, IND.—Bids are asked by Pike County Commissioners until Sept. 24 for construction of three miles and 3,643 ft. rock or gravel roads in Washington Township. Plans and specifications on file with T. W. Basinger, County Audr.

INDIANAPOLIS, IND.—As the result of an ordinance the Board Public Works will have $25,000 as the city's share of the cost of separating the street and track grades at the Massachusetts Ave. and East Tenth St. crossings. As soon as the engineers complete the plans the city will invite bids to do the work.

RICHMOND, IND.—Bids are asked until Sept. 19 for constructing cement sidewalks on several streets. John T. Taggart, Cy. Clk.

SHELBYVILLE, IND.—Bids are asked by Common Council until Sept. 20 for paving sidewalks with Portland cement on Colescott St. and Washington Ave. Edw. C. Newton, Clk.

MUSKEGON, MICH.—City Council has passed the resolution calling for the paving of Sixth St. with bituminous macadam, with a concrete curb and gutter.

BAY CITY, MICH.—Bids are asked by Board Public Works until Sept. 19 for grading, draining and paving with vitrified brick, alleys in blocks 55 and 66. Plans and specifications on file at comptroller's office. T. W. Moore, Secy.

MOLINE, ILL.—Board Local Improvements awarded to Jordan & Daebelliehn the contract for constructing new sidewalks to be laid this season, at $4,489. The contract calls for the laying of 8,390 ft. 5-ft. cement walks, 1,036 ft. 4-ft. cement walks and 140 ft. 5-ft. tile walks.

CHICAGO, ILL.—Joseph Hanreddy has offered to pave Townsend St. with asphalt at $2.18 per sq. yd.

STERLING, ILL.—The City Council has decided that East Fourth St. should be macadamized.

ELGIN, ILL.—Bids are asked by Board Local Improvements, A. H. Hubard, Pres., until Sept. 19 for grading and paving with macadam on Douglas Ave. Plans and specifications on file in City Engineer's office.

DECATUR, ILL.—Bids are asked by Board Local Improvements until Sept. 19 for improving several streets. Plans and specifications on file in office of City Clerk. G. V. Loring, Cy, Engr.

SYCAMORE, ILL.—Bids are asked by Board Local Improvements until Sept. 17 for grading, curbing and paving with brick on DeKalb Ave., Elm St. and California St. Specifications on file in office of City Clerk. Approximate quantities are: 13,430 sq. yds. brick paving, 6,410 lin. ft. sandstone curbing, 4,480 cu. yds. earth excavation and 16 storm water inlets.

CENTERVILLE, IA.—Centerville has let a contract for 20,000 yds. brick paving at $2 per sq. yd. and 3,000 ft. of curb at 45 cts., to McCartney Construction Co., of Davenport.

ST. PAUL, MINN.—The paving of Bates Ave. was awarded by Board Public Works to the Barber Asphalt Co. for $25,209, being the only bidder. Cost will be about $2.20 per sq. yd. Engineer's est., $24,685.

MANKATO, MINN.—The McCarthy Improvement Co. was awarded the contract for laying 20,000 sq. yds. asphalt paving and 15,000 sq. yds. brick paving at $100,000. Work is to be started at once.

ST. PAUL, MINN.—City Engineer Rundlett has prepared plans and specifications for asphalt paving on College Ave. It is thought that the contract will be advertised at once.

FORT LEAVENWORTH, KAN.—Bids are asked by Maj. D. E. McCarthy, Q. M., until Oct. 7 for grading.

GRAND ISLAND, NEB.—Bids are asked by Board of Supervisors until Sept. 30 for 4,896 sq. ft. sidewalk and 497 lin. ft. curbing for Court House grounds, either of cement or Colorado red standstone. Plans and specifications on file with J. L. Schaupp, County Clk.

OMAHA, NEB.—Resolution to construct brick sidewalks on 24th and Charles Sts., was passed by City Council. W. H. Elbourn, Cy. Clk. Andrew Rosewater, Cy. Engr.

ST. LOUIS, MO.—A bill has been presented to House of Delegates providing for issuance of $9,000,000 bonds for various municipal improvements, among which is mentioned the construction and extension of bridges and viaducts, including King's boulevard and King's highway boulevard bridge over Mill creek valley, $2,000,000.

PUEBLO, COLO.—A plan is being considered by the County Commissioners to macadamize the country roads leading out of the city with disintegrated granite. It is proposed to pave the road leading to Riverview and the new smelter town of Blend first.

SEATTLE, WASH.—The Barber Asphalt Co. was the only bidder for paving Spring St. et al with asphalt at $12,806 for wood bulkhead, and $16,149 for concrete bulkhead.

The following improvements have been awarded by the Board Public Works: Grading North 42d St. and Woodland Park Ave., Wm. Stanley & Co., $1,971; concrete walks, John St., Coast Concrete Co., $3,352.

SEATTLE, WASH.—City Council has ordered that concrete walks be laid on several streets. Est. cost, $33,150. R. H. Thomson is city engineer.

LOS ANGELES, CAL.—Extensive improvements are planned for the Strand district of Ocean Park, which includes the paving of Lake View and Lagoon Sts. with concrete.

PASADENA, CAL.—Councilman Heiss has decided that the City Clerks be instructed to advertise for bids for the paving and construction of sidewalks on Colorado St.

OAKLAND, CAL.—The following bids were received by Board of Supervisors for construction of the scenic boulevard between Oakland and Haywards: Ransome Construction Co., $300,000; Oakland Paving Co., $305,000; E. B. & A. L. Stone Co., $324,500; Pacific Construction Co., $397,973.

PASADENA, CAL.—Board Public Works has awarded the contract for improving Pico St. to Fairchild-Gilmore-Wilton Co. for $68,550.

OAKLAND, CAL.—Bids are asked by John P. Cook, County Clk., until Sept. 19 for macadamizing portion of county road leading from Haywards to Mount Eden.

SAN MATEO, CAL.—Bids are asked by R. H. Jury, Cy. Clk., until Sept. 19 for paving B St. with asphalt.

MARYSVILLE, CAL.—The Supervisors have decided to divide the work of building the new Hedges grade into four sections, and will at once advertise for bids on each. The new road will require nearly 125,000 cu. yds. of earth.

THAMESVILLE, ONT.—Thamesville has decided to spend $6,500 for granolithic walks.

MANUFACTURING PLANTS.

ATTLEBORO, MASS.—The Dodgeville Cotton Mill plant here, owned by Robert Knight, of Providence, is to be enlarged by the erection of a three-story brick building, 50 × 70 ft., in rear of present structure.

SPRINGFIELD, MASS.—It is reported that M. Craven, woolen goods manufacturer of Springfield, is seeking a site in the South for the establishment of a branch mill, and that he is considering the advantages of Greenville, Miss.

NORTHAMPTON, MASS.—The McCallum Hosiery Co. will build a two-story addition, 60 × 60 ft., plans for which have been submitted for bids. A dyeing department will be added.

BOSTON, MASS.—The chair factory of P. Derby Co., 17-23 Water St., Charlestown, a five-story brick building, was destroyed by fire. Loss, $120,000.

PROVIDENCE, R. I.—Plans for the new building of D. & W. Fuse Co. have been completed by C. R. Makepeace & Co., Mill Engrs., City. The main building, which is about 282 ft. long, will be a 2½-story structure. The main floor comprises three workshops, offices, etc. In a detached building will be located the engine and boiler rooms and enamelling department.

ROCHESTER, N. Y.—The Oil & Waste Saving Machine Co. has been organized here for the manufacture of a machine for separating and reclaiming oil and waste, etc. For the present the company will have its machinery built by contract. The New York office is at 71 Broadway. Ed. H. Williams is President.

TROY, N. Y.—Mayor Hogan has received a letter from C. C. Anderson, of Fremont, O., in reference to the establishment of a factory in this city for manufacture of muslin and flannelette underwear.

NEW YORK, N. Y.—Mrs. Elizabeth A. Wilcox has filed plans for a 12-story factory at 29 West 34th St. Cost, $175,000. Chas. E. Birge, 5 West 31st St., is architect.

CAMDEN, N. J.—Kaighn & Draper, City, have been awarded contract by Ballinger & Perrot, Archs., Philadelphia, Pa., for the erection of Victor Talking Machine Co.'s factory at Front and Cooper Sts., Camden. Cost, $150,000. The factory will be four stories, 70 × 170 ft., and be built in the girder frame system of reinforced concrete. The power house will be two stories, 50 × 60 ft.

MONESSEN, PA.—Contract for steel work for new plant of Seamless Tube Co. of America, at Monessen, was awarded to McClintic-Marshall Construction Co., of Pittsburg. Est. amount, 700 tons. Contract for 1,200-HP. engine awarded to the Hooven, Owens & Rentschler Co., Hamilton, O. Contract for 800-KW. generator let to Westinghouse Electric & Mfg. Co. Contract for erecting the plant was awarded to A. & S. Wilson, 541 Third Ave., Pittsburg. Construction will be brick and steel fireproof. Concrete foundation contract awarded to the T. A. Gillespie Co., Westinghouse Bldg., Pittsburg.

PITTSBURG, PA.—The Mesta Machine Co., City, was awarded contract for complete equipment of new plate and sheet mills to be erected by Allegheny Iron & Steel Co., Tarentum, Pa. Order includes two large Corliss engines, 36 × 60 ins., a complete 72-in. plate mill with all equipment, and a 20 × 40-in. sheet mill.

SCOTTDALE, PA.—The F. A. Black Mfg. Co., City, will erect a plant here for manufacture of cutlery. Cost est. $60,000.

HAYS STATION, PA.—Nine buildings of brick plant of Harbison-Walker Refractories Co. was destroyed by fire. Est. loss, $40,000.

MORRISTOWN, PA.—Lewis Tauble has invited bids for an addition to his hosiery mill. Brick, 3 stories, 80 × 50 ft.

SELLERSVILLE, PA.—Plans and specifications for the new textile plant here are in the hands of the contractors. The main building will be 150 × 50 ft., two stories high; the engine and boiler rooms, 50 × 50 ft. two stories, also office and shipping room, 50 × 50 ft. There is no question of its being built, as the $20,000 bonds have been subscribed for.

Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.

HAZELTON, PA.—S. Y. Frederick has been awarded the contract for a 3-story addition to shirt factory of Jacob Gebhardt.

WILKESBARRE, PA.—McCormick & French, Archs., Laning Bldg., City, are preparing plans for a 3-story lace mill for Wilkesbarre & Wyoming Valley Lace Mfg. Co.

BALTIMORE, MD.—The Phoenix Pad Co., 501 South Payson St., has invited bids for an addition to their factory at Eagle and Payson Sts. Brick and steel, fireproof, 2 stories, 100 × 130 ft.

BALTIMORE, MD.—James E. Hooper will erect a cotton factory on Parkdale Ave. Brick and stone, three stories, 102 × 266 ft. Cost, $60,000. C. C. Hedrick is architect.

MANCHESTER, VA.—It is reported that William Cameron, Jr., and associates have formed an association with the Surbury Tobacco Co., 132 Reade St., New York, and establish a large factory here at once.

BELINGTON, W. VA.—The organization of the Bromall Iron & Steel Co., of Belington, has been completed in Pittsburg and a site for plant will be selected in the near future. The company is incorporated with a capital of $300,000.

LEXINGTON, N. C.—Wagon works will be established here. Address E. A. Rothrock for information.

HARTWELL, GA.—Asa G. Candler, Jr., secretary and treasurer of the Witham Cotton Mills, is contemplating erecting a rope mill in the fall.

CHARLESTON, S. C.—Bids are asked by Bureau of Yards and Docks, Washington, D. C., until Oct. 15 for constructing a brick and steel building for a foundry. Specifications on file in office of Engineering News, 220 Broadway, New York.

HIGH SHOALS, GA.—A. J. Baxter, Supt. High Shoals Mfg. Co., has purchased a $7,000 tract of land near here, and it is rumored that he will erect a cotton mill on the property.

MOBILE, ALA.—A company is organizing here to have a capital of $100,000, having for its purpose the establishing of a cold storage plant. The plant will be a five-story structure, situated on the property of American Ice & Fuel Co., on Royal and Water Sts. M. Canizas, Pres. American Ice Co., is interested.

The Appleton (Ind.), Watch Co. will move their factory to this city.

SYLACAUGA, ALA.—The Avondale Mills at Birmingham will double the Central Cotton Mills of Sylacauga, the plant which the former company recently purchased. There will be erected an additional building 100 × 130 ft., to be equipped with 11,200 spindles for yarn production, doubling the present plant. All contracts have been awarded. The total expenditure will probably amount to more than $125,000.

CAMDEN, ALA.—A stock company with $30,000 capital has been organized at Camden to build a cottonseed oil mill with about 40 tons capacity. The plant will be built at once. The company will incorporate in a few days.

GULFPORT, MISS.—A. E. McCoy and W. A. Cox have incorporated the Gulfport Sash, Door & Blind Mfg. Co., with a capital of $25,000. The contract for building the factory, machine shops and warehouses has been awarded to O. E. Thompson.

VICKSBURG, MISS.—Vicksburg Cotton Oil Co., capital $75,000, has made an application for a charter. H. C. McCabe, City, is interested.

VICKSBURG, MISS.—The Vicksburg Refining Co., capital $50,000, has made an application for a charter. G. B. Hackett, City, is interested.

The Merchants' Compress Co., capital $193,000, has applied for a charter. Lee Richardson, City, can inform.

FRANKLIN, LA.—W. Y. Kemper and others are organizing a company, to be capitalized at $50,000, to establish canning factory. Structure will be 40 × 100 ft. M. Mills, of Baltimore, Md., is engineer in charge.

NEW ORLEANS, LA.—J. Rufer, City, and associates will erect a $50,000 distillery at Bayou La Branche.

PRINCETON, KY.—A company is being organized here to erect a canning factory.

LOUISVILLE, KY.—It is likely that a branch strawboard plant will be located here by a syndicate of Ohio capitalists who operate an extensive strawboard plant in that state. James F. Buckner can inform.

YOUNGSTOWN, O.—The Directors of the Youngstown Iron, Sheet & Tube Co. have authorized the erection of a new lapweld tube mill. Cost, about $270,000. Later on a new skelp mill will be added.

TOLEDO, O.—The plant of the Mitchell & Rowland Lumber Co. was completely destroyed by fire. Loss, $150,000.

NEW ALBANY, IND.—An issue of $1,500,000 bonds was authorized at a recent meeting of stockholders of United Gas & Electric Co. in New Albany. One-half of the new bonds are to be used in taking up old bonds of the company, and the remaining $750,000 are to be sold and proceeds used in extension and improvement of plants of company in New Albany and Jeffersonville, and acquiring and improvement of gas and electric plants elsewhere. It is the intention of the company in securing control of plants in other cities to manage them from headquarters here. New machinery is being installed in power house.

MUSKOGEE, IND. T.—The Southwestern Distributing & Jobbing Co. has been organized by Cole Younger and associates, with capital stock of $25,000, and will establish foundry for manufacturing carbon burners, etc.

PARIS, ILL.—John J. Cummings, Pres. McGuire-Cummings Mfg. Co., of Chicago, is building a plant for the manufacture of car bodies in Paris. Cost, $300,000, and will employ about 600 men.

CHICAGO, ILL.—R. Williamson & Co., manufacturers of gas and electric light fixtures, will erect a factory on West Washington St., near Jefferson St. It will be 7 stories, 75 × 126 ft., of mill and steel construction, composition roof, steam heat, etc. Cost, $70,000. W. W. Blair, 226 La Salle St., is architect.

MORENGO, ILL.—D. S. Schureman & Son, Archs., of Rockford, have plans for a 2-story bakery for A. G. Beath. Cost, $8,000. Freight elevator and bakery machinery will be required.

CHICAGO, ILL.—Zachary T. Davis, Arch. 1343 Unity Bldg., will prepare plans for reconstruction of 3-story manufacturing plant of National Provision Co., 100 × 150 ft., at 39th and Butler Sts., which was destroyed by fire recently. The loss is estimated at $75,000. The owner is about to decide as to the number of stories and details of the building.

L. G. Hallberg, Arch., Oxford Bldg., let the mason con-

tract to Henry Ericsson, 84 La Salle St.; carpentry to A. J. Samuelson, 283 Belden Ave., and contract for concrete columns and floors to the Simpson Construction Co., 704 Chamber of Commerce Bldg., for a fireproof factory to be built at Van Buren and Peoria Sts., for Adressograph Co., 173 South Canal St. It will be 4-story, 125 × 90 ft., pressed brick fronts, steam heat, wire glass windows, and cost $80,000.

CHICAGO, ILL.—C. A. Eckstrom has let contracts for a factory and storage building at 19th Place and Sangamon St. for the Sykes Steel Roofing Co. Brick, four stories, 120 × 110 ft. Cost, $40,000.

Contracts have been let for a two-story addition, 81 × 151 ft., to the old plant of Eckhart & Swan Milling Co., 66-72 North Canal St. Cost, $35,000.

MILWAUKEE, WIS.—Plans for a $25,000 factory and office building to be erected for the American Show Printing Co. at Sixth and Poplar Sts. have been prepared. The ground dimensions will be 100 × 150 ft., and the building will have a pressed brick front.

POWERS LAKE, WIS.—The Jefferson Ice Co. will erect a storage plant here after plans by Wm. Ohlhaber, 663 North Robey St., Chicago, Ill. The building, which will be constructed of planking, will be 125 × 516 ft., and will cost $50,000.

MINNEAPOLIS, MINN.—Plans for the new car shops of the Twin City Rapid Transit Co., at University and Snelling Aves., Midway, have been completed. Eight acres will be covered by the buildings. The largest single building will be the new car house, which will cost $175,000 or $200,000, and cover 3 2-10 acres. The building will be divided into five parts, of which three will be car storage halls.

PORT ARTHUR, TEX.—The Port Arthur Rice Milling Co. has increased its capital stock from $100,000 to $200,000.

TACOMA, WASH.—The West Coast Wagon Co. will erect a four or five-story brick building, to cost $25,000. Work will begin within 90 days.

KALAMA, WASH.—A company of capitalists has purchased about 60 acres of land on the banks of the Columbia, just below the ferry landing, where it is proposed to at once begin the erection of a saw mill of not less than 100,000 ft. daily capacity, together with a shingle mill and box factory. It will require many thousands of dollars to put up the necessary buildings, construct a wharf and build a spur to the Northern Pacific Railroad, for all of which the capital is said to be immediately available.

TACOMA, WASH.—The West Coast Wagon Co. will shortly let contract for construction of a new plant to cost $25,000. It will be equipped with the most modern machinery.

TACOMA, WASH.—Plans have been completed for a new warehouse and plant for Albers Bros. Milling Co., at 15th and Dock Sts. Cost, $50,000.

OLYMPIA, WASH.—Olympia Brewing Co. will erect a stock house to cost $20,000.

SAN PEDRO, CAL.—A new concern has been organized in Portland, Ore., to be known as the Robertson Lumber & Rafting Co., with a capital stock of $1,000,000. The principal headquarters will be at Portland. The incorporators intend to establish a large mill at San Pedro for the manufacture of lumber and by-products.

PORT ANGELES, CAL.—The Craig Fish Products Co. proposes to construct a plant at or near here to cost $150,000, to consist of installation of machinery for the abstraction of oils from fish and the manufacture of fish fertilizer, establishment of a modern saltery, ice and cold storage plant and complete cannery and evaporation plant. D. W. Craif is president.

POMONA, CAL.—The California Citrus Union will erect a large packing house, 90 × 60 ft.

PHOENIX, ARIZ.—The Northern States Ice Co., capital $1,500,000, has been chartered. Incorporators: J. S. Essick, H. F. Eaton, J. E. King and others.

LEWISTON, IDAHO.—The directors of the Lewiston Foundry & Machine Works contemplate erecting a new foundry building this winter.

MISCELLANEOUS CONTRACTS.

FIRE ENGINE.—Albuquerque, N. Mex.—City may issue $4,000 of bonds for new fire engine.

DAM.—Ellsworth, Me.—Bar Harbor & Union River Power Co., according to reports, will build its projected 60 ft. high dam next year.

DRAINAGE.—Brantford, Ont.—City Engineer has submitted plans to Council for better drainage of city, involving cost of $47,690.

DAM.—Elberton, Ga.—Council has let contract to Col. T. M. Swift to erect 15-ft. dam across Beaver Dam Creek at the electric light plant.

TELEPHONE WORK.—Lexington, Va.—Lexington Mutual Telephone Co. will enlarge its plant at a cost of $5,000. T. S. Burwell is Mgr.

DAM.—Columbus, O.—McCracken & Co., Cleveland, O., was only bidder Sept. 7 for constructing municipal light plant dam in Olentangy River.

LEVEE.—Pine Bluff, Ark.—Walker Stansell, Greenville, Miss., has been awarded contract to build 14 miles of levee in Lonoke and Jefferson Counties.

PIER.—Wildwood, N. J.—Chas. A. Reynolds and Herman Buckborn, of Camden, N. J., propose, it is stated, to erect a $100,000 steel pier at this place.

RETAINING WALL REPAIR.—Newport, R. I.—Contract for repairing retaining wall on south side of Briggs Wharf was let to J. K. Sullivan for $3,390.

RETAINING WALL.—Kansas City, Mo.—Contract for building retaining wall on west side of Holly St. reservoir has been let to Pringle & Son for $7,370.

DREDGES.—Yuba City, Cal.—Directors of Levee District No. 1 will, it is stated, enter into contract with Stockton Iron Works for a dredge to cost about $44,000.

DAM.—Utica, N. Y.—Utica Gas & Electric Co. is stated to have plans under consideration for construction of large storage reservoir on West Canada Creek, near Hinckley.

DOCK IMPROVEMENT.—Albany, N. Y.—New York Central & Hudson River R. R. Co. is reported to be considering improvement of 300 ft. of dockage north of Columbia St.

DAM.—Benton Harbor, Mich.—Berrien Springs Water Power Co. is stated to be having plans prepared for a power dam. Improvement will cost $1,500,000 and will furnish 50,000 HP.

EARTHWORK.—New Orleans, La.—Bids are asked by Capt. J. F. McIndoe, U. S. Engrs., until Oct. 1 for constructing about 75,000 cu. yds. earthwork in Atchafalaya Levee District.

LEVEE WORK.—Shreveport, La.—Bids are asked by Caddo Levee District Commissioners, 518 Spring St., until Sept. 21 for constructing Riverdale levee, about 47,000 cu. yds., and Dixie levee, about 52,000 cu. yds. J. M. Robinson, Pres.

PIER.—Jersey City, N. J.—Henry Steers, 17 Battery Pl., New York, is stated to have received contract for erection of 100 × 1,200-ft. pier for D., L. & W. R. R. at Hoboken. Pier is to cost $300,000.

CONDUIT WORK.—Baltimore, Md.—Subway Commission, according to reports, will spend $200,000 next year in extending the subway system. About 800,000 duct ft. of material will be purchased.

SUBWAY.—Herkimer, N. Y.—Village Board has submitted plans for subway under New York Central R. R. tracks to company's engineer. Plans were prepared by Kinne & Brady, Archs, Herkimer.

DREDGING.—Passaic, N. J.—Bids are asked until Oct. 11 for dredging in the Passaic River. Col. W. R. Livermore, Corps of Engrs., Army Bldg., 39 Whitehall St., New York. (Advertised, Engineering News.)

BRICK, PORTLAND CEMENT.—New York, N. Y.—Bids are asked by Park Commissioners, John J. Pallas, Pres., Arsenal Bldg., until Sept. 29 for furnishing and delivering paving brick, hard brick and Portland cement.

PIER.—Baltimore, Md.—B. & O. R. R. Co. has let contract to McClean Contracting Co., Baltimore, for construction of 300 ft. long and 60 ft. wide covered pier and bulkhead, total cost of which will be about $200,000.

DOCK, COAL TIPPLES.—New Orleans, La.—C. J. Jutte & Co. are stated to have let contract Sept. 9 to Heyl & Patterson, Pittsburg, Pa., for constructing coal docks and tipple at New Orleans. Work will cost about $200,000.

DRAINAGE CANAL.—New Iberia, La.—Bids are asked by New Iberia Southern Drainage Board until Sept. 26 for construction of drainage canal from New Iberia to Bayou Carlin, a distance of about ten miles. J. L. Haase, Secy.

TELEPHONE WORK.—San Francisco, Cal.—Pacific States Telephone & Telegraph Co. will erect a new building on Bush and Belden Sts., to cost about $100,000. New machinery is to be purchased and a switchboard installed.

FLOATING PILE DRIVER.—Washington, D. C.—Bids are asked by Bureau Yards and Docks until Oct. 1 for floating pile driver for naval station, Guantanamo, Cuba. Specifications for above work are on file at office of Engineering News, 220 Broadway, New York.

DAM.—Wilton, N. H.—Commissioners of Wilton, N. H., have awarded contract for concrete-steel dam with combined gate house to the Ambursen Hydraulic Construction Co., 176 Federal St., Boston, Mass. Arthur W. Dudley, Manchester, N. H., is Consult. Engr.

SEA WALL, PIERS.—San Francisco, Cal.—It is stated that if favorable action is taken by voters on proposed bond issue, the Harbor Commissioners will construct 4,400 ft. of sea wall at a cost of about $770,000; 13 cylindrical piers will also be built at a cost of $1,105,000.

REPAIRING JETTIES.—New London, Conn.—Specifications are on file at office of Engineering News, 220 Broadway, New York, for repairing jetties at mouth of Connecticut River. Bids are asked by Lt.-Col. C. F. Powell, U. S. Engrs., until Sept. 27, as advertised in Engineering News.

STATION AND WHARF.—Muskegon, Mich.—Following bids were received Sept. 2 for construction of life saving station and wharf at this place: B. M. Zadeck Co., 135 Adams St., Chicago, Ill., $25,016; Jensen Bros., Racine, Wis., $14,700; C. Hoertz & Son, Porter Block, Grand Rapids, Mich., $15,220.

DRAIN.—Hackensack, N. J.—Bids are asked by the Drainage Commission at the office of Mable & Maidment, Union Banking Bldg., until Sept. 26 for about 22,000 cu. yds. of excavation and construction of a drain 2¼ miles long from the Pond at Cherry Hill to Essex St. Henry C. Adams, Pres. (Advertised, Engineering News.)

FREIGHT ELEVATOR, ETC.—Washington, D. C.—We are informed that following bids were received Sept. 5 for installing freight elevator and operating engine at Sewage Pumping Station; D. E. McComb, Supt. Sewers: Albro-Clem Elevator Co., Philadelphia, Pa., $1,689; Otis Elevator Co., New York, $2,665; Howard Iron Works, Buffalo, N. Y., $1,823.

STEAM SHOVELS, POWDER AND DYNAMITE.—Washington, D. C.—Bids are asked by the Isthmian Canal Commission until Oct. 6 for furnishing five steam shovels between 65 and 75 tons in weight, and six steam shovels between 90 and 100 tons in weight. A large quantity of dynamite and powder is also to be purchased. J. G. [illegible], Chn. ((Advertised, Engineering News.)

DITCH, LEVEES AND MASONRY.—Columbus, O.—Following bids were received by Board Public Service, Julian Griggs, Ch. Engr., Aug. 31 for excavating ditch, constructing levees, masonry structures, etc.; all bidders from Columbus: Murphy & Miles, $128,605; D. E. Sullivan & Son, $129,955; Fisher & Knight, $149,007. All bids were rejected and new proposals asked until Sept. 27. Itemized bids for above work are given under Contract Prices.

RIVER RECLAMATION.—California.—We are informed that it is not likely that the recently appointed commission of engineers, in connection with the proposed river reclamation, will have anything to do with the awarding of contracts for the work, as its function is to indicate a general plan for the rectification of the Sacramento and Joaquin Rivers, and the reclamation of adjacent lands. Maj. T. G. Dabney is Chn. of the Comm., whose address is 37 Flood Bldg., San Francisco, Cal.

LAMPS, STEEL, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until Oct. 4 for furnishing at navy yards at Pensacola, Fla., Key West, Fla., and New Orleans, La., naval supplies, among which are incandescent lamps, wire, induction coil, photometer, ammeter, miscellaneous electrical supplies, yellow pine, slab zinc, sheet steel, copper pipe, set screws, etc., rails, switches, cypress ties, handling coal, and installation of electric conduit subway. H. T. B. Harris, Paym. Gen., U. S. N.

OIL COMPANIES.—New York, N. Y.—Vreeland Oil & Gas Co., of Phoenix, Ariz., has been incorporated with $30,000 capital. Daniel Montgomery, Henry D. Folsom, J. O. Freed are interested.——Lockhart Oil & Refining Co., of Lockhart, Tex., has been reorganized and incorporated with a capital of $50,000. John B. Holt, E. A. Masur, Lockhart, and Ed. J. L. Greene, C. L. Hopkins, of San Marcos, Tex., are interested.——Eagle Oil & Gas Co., of Stevens Point, Wis., has been incorporated with capital of $50,000. F. F. Boston, F. A. Walters and C. G. Macnish are incorporators.

MACHINE TOOLS.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until Oct. 11 for furnishing at navy yards, Portmouth, N. H., Boston, Mass., Narragansett Bay, R. I., League Island, Pa., A[illegible] Md., and Norfolk, Va., a quantity of machine to[illegible] comprising shifting locomotives, drills, lathes, [illegible] pulleys, molding machine cutt[illegible] machine join[illegible] chines, planers, borer, blower, boring mills, dr[illegible] crank shaper, dovetailing machine, band scroll, [illegible] outfit, revolving crane, cable cars, saw bench, and [illegible] drive. H. T. B. Harris, Paym. Gen., U. S. N.

Write our advertisers when you intend to buy your supplies and machinery for improvements, or for carrying out your contracts. If you do not find what you want in our advertising pages write us for list of firms, and we will put you in communication with them at once.

STOREHOUSE.—Norfolk, Va.—Following bids w[illegible] ceived by Bureau Yards and Docks Sept. 10 fo[illegible] house for torpedo-boat outfits at Navy Yard, N[illegible] Va.; bids given are on item 1, which is for work [illegible] according to government plans and specification[illegible] Construction Co., 15 Beacon St., Boston, Mass., [illegible] A. F. Withrow & Co., Charleston, W. Va., $43,0[illegible] Brackett Bridge Co., 518 Walnut St., Cincinnati, O., [illegible] 000; Grant Wilkins, Atlanta, Ga., $42,938; H[illegible] Bros. (Inc.), King and Queen Sts., Hampton, Va., [illegible] 979; Congress Construction Co., 1614 Masonic T[illegible] Chicago, Ill., $43,384; Northeastern Constructio[illegible] Fuller Bldg., New York, $43,464; Tatterson & T[illegible] 214 N. Liberty St., Baltimore, Md., $39,823; Pit[illegible] Construction Co., 405 Seventh Ave., Pittsburg, Pa., [illegible] 984; Penn Bridge Co., 312 Bond Bldg., Washington, [illegible] $31,483.

MINING NOTES.

SMELTER.—Roslyn, Wash.—Local reports state [illegible] it is quite likely a smelter will be erected at the D[illegible] Gallaher mine soon.

SAMPLING WORKS.—Reno, Nev.—The Western [illegible] Purchasing Co., according to reports, intends to [illegible] sampling plant at Mound House in the near future.

MILL.—Salt Lake City, Utah.—Local reports [illegible] that the Lucy L. Mining & Milling Co. intends to erect a mill in the Clifton District. F. L. Wilson is interested.

FURNACE.—Bisbee, Ariz.—The Savage Gold & Copper Co., owning 30 claims in the Paradise camp, will install a small furnace. J. A. Lewandowski, Douglas, Ariz., is Engr.

CONCENTRATOR.—El Paso, Tex.—Reports from here state that the Mineral Hill Consolidated Copper Co. has purchased the Azurite mine in Pimi mining district and will erect a concentrator.

WATER JACKET.—Benson, Ariz.—Empire Smelting Co., of Benson, has been reorganized under name of Southwestern Smelting & Refining Co., and will, it is stated, add a new 200-ton water jacket.

MINING TUNNEL.—Ouray, Colo.—It is understood that work will commence soon on the tunnel which the Colorado Gold-Copper Tunnel Co. proposes to cut under the Gold Belt and Blowout properties.

MINING WORK.—Richfield, Utah.—It is reported that the Annie Laurie Mining Co. is contemplating some extensive improvements in its mill at Kimberly. An electric system of haulage will be installed in the lower tunnel.

QUARTZ MILLING PLANT.—Redding, Cal.—It is stated that a quartz milling plant is to be installed on property in Salmon River District owned by Gold Dike Milling & Mining Co. H. M. Le Baron, Valley Ford, Cal., may be interested.

CYANIDE PLANT.—Redding, Cal.—Local reports state that a cyanide plant will be built at the Yellow Rose mine on the headwaters of Coffee Creek, Trinity County, next year to handle the product of a great ledge of rich ore. J. C. Boddiker is Supt.

TUNNEL, REDUCTION WORKS.—Loomis, Wash.—Palmer Mountain Tunnel Co., whose mines are at this place, has raised $125,000 to drive the long tunnel and erect and equip extensive reduction works. C. C. May, Holyoke, Mass., is reported interested.

MINING COMPANIES.—New York and Colorado.—The Big Master Mining Co., Fishkill, N. Y., has been incorporated with $300,000 capital to operate in the Rainy River district of Ontario, Canada. F. G. Kendrick, Mount Clemens, Mich.; C. P. Russell, Cincinnati, O.; B. Hammond, Fishkill, are interested.——The Buckskin Gulch Mining & Milling Co., of Denver, Colo., has been incorporated with $1,000,000 capital. R. S. Clark, A. E. Keables, J. Percy Hart are interested.——The Sidney Mining & Milling Co., of Denver, Colo., has been incorporated with $500,000 capital. Charles E. Burns, E. A. Thayer, A. W. Gray are interested.

U. S. POSSESSIONS AND CUBA.

CONDITIONS IN THE PHILIPPINE ISLANDS.—A correspondent, who was for two years in the employ of the U. S. Government on work in Cavite, writes us that bids for rocking eight miles of highway have been rejected as the bids were too high. This was not the contractor's fault, as the cost of transportation is almost prohibitory. On this bid the estimate for average haul for caribou was two trips a day, to carry ¼ cu. yd. per trip. The total haul would have cost about $90,000. There are no other means of transportation at present, and the Filipino will not work for less; in fact, he does not care if he works or not. Our correspondent states that what are wanted are traction engines, running gears for wide tire wagons, portable engines, hoisting engines, rock crushers and derricks. The Insular Purchasing Agent has been buying goods in America and sells to the Provincial Government. There are a large number of contractors in the islands and more work is being done every year.

WATER-WORKS AND RAILWAYS.—Philippine Islands.—We are informed that it is not contemplated to ask for bids for the proposed water-works for Manila in the immediate future. The government has authority to issue bonds to the extent of $4,000,000 for this work, but such bonds have not yet been sold. The preliminary surveys have been made and passed upon by consulting engineers in the U. S., and Maj. J. F. Case, Cy. Engr. of Manila, is now looking around the U. S., having in mind the beginning of this work. Maj. Case may be addressed from Sept. 15 to the 25th at 927 Corbett St., Portland, Ore., and after that, until he sails, at the Occidental Hotel, San Francisco, Cal.——Regarding the proposed railways, our correspondent states that the bill authorizing the Philippine government to guarantee a fixed income on moneys invested in the construction of railroads in the islands is now in the order of business in the Senate, when it convenes next December. As our readers will remember, this bill passed the House in the closing days of the last session.

MEXICO.

RAILWAYS.

AGOSTITLAN, MICHOACAN.—The Compania Explotadora de Carbon de Michoacan, which owns coal fields near the town of Agostitlan, proposes to construct a railway from the mines to Irimbo, a distance of about 55 kilometers, and will, probably extend the line from the latter point to connect with Mexican Central, at San Juan del Rio. Alfred Stoeffel, Agostitlan, is interested.

CHIHUAHUA.—It is stated that the plans of the American syndicate of which Frank Murphy, Prescott, Ariz., is at the head, for building a railroad from Douglas, Ariz., to large tracts of timber land in the western part of this state are soon to be carried out. W. A. Drake, Prescott, Ariz., Ch. Engr., Santa Fe, Prescott & Phoenix Ry., made a preliminary survey of route of proposed road several months ago and reported it feasible. It is understood that it is planned to extend road to connect with the Mexican Central R. R. at some point north of this city.

CITY OF MEXICO.—It is reported that the National R. R. Co. of Mexico will build a line of railroad from a point on its new Matamores branch line to the port of Tampico. The survey for the proposed road is said to be now in progress. R. T. MacDonald, City of Mexico, is Ch. Engr.

COLIMA, COLIMA.—The Sierra Grande Lumber Co., which recently acquired timber land embracing 40,000 acres, in this state, will build a 40 mile railroad to connect the lumber mills which it will erect on the land with the railroad at a point near Colima.

CORDOVA, VERA CRUZ.—It is announced that Industrial R. R. Co. will apply to Mexican Government for concession to build a system of railroad through rich agricultural districts of this state.

DURANGO.—Two engineering corps have been at work between this place and Mazatlan for proposed extension of the Mexican International R. R. from Durango to Mazatlan. Surveys have been completed and the engineers are engaged in cross-sectioning. R. Johnson, Durango, is Asst. Ch. Engr.

VICTORIA, TANAULIPAS.—Governor Pedro Arguellas, of this state, with headquarters at Victoria, is promoting construction of railroad from Matamoros down the gulf coast to the port of Tampico. He has interested a number of capitalists in the project and their plans will soon be submitted to the Federal Government and an application made for a concession to build the road.

TEPIC.—J. Roger Wahl, City of Mexico, has a concession for a railroad from Tepic to Santiago, in territory of Tepic, and a branch is projected to San Blas. A company to own it will be incorporated in Mexico with capital of $2,000,000 gold. It is stated that difficult bridge building will be required, but for the present none of this will be done. The road will have total length of about 80 miles.

STREET AND ELECTRIC RAILWAYS.

CHIHUAHUA.—Col. A .Ramos Cadena has obtained a concession to build a bridge over the Conchos River at Santa Rosalia and to establish a street railroad between depot and hot springs, either horse or electric power.

CITY OF MEXICO.—A concession has just been granted by the federal government for the construction of an electric railway from the City of Mexico to the city of Puebla. The concession, which is dated Aug. 26, specifies that at least 10 kilometers must be completed each year, and the first 10 kilometers within twelve months. A deposit of $18,000 has been made for the fulfillment of the terms of the concession. A syndicate of German capitalists will furnish the capital. The length of the line will be about 102 kilometers. The concession is in the name of Benjamin Barrios, of 18 Zuleta St., City of Mexico. It is said the cars and equipment will be purchased in Germany.

VERA CRUZ.—British contracting firm of S. Pearson & Son are stated to have consummated plans for establishment of extensive electric traction system in this city. Present system, which is a horse road, is eleven miles long and the Pearsons will utilize the streets now occupied by this system, extending the lines until the road covers about 15 miles. A. E. Worswick, formerly chief engineer of the Mexico City traction system, will be the chief construction engineer of the new Vera Cruz system and J. N. Nixon, who has been superintendent of the National Express Co. in Mexico City, will have charge of the system.

LIGHT AND POWER PLANTS.

AUGASCALIENTES.—W. A. Rogers, of New York city; J. M. Garcia, Lazaro Lepetiche and Latour de Vasquez, all of Guadalajara, who own the concession recently obtained from the Mexican Government for establishment of electric power plant on the Santiago River, are said to have financed the project in the United States, and preparations are now being made for commencing the work of construction. It is proposed to transmit the electrical energy to the city of Aguascalientes, a distance of 110 miles, and to other cities and towns of this part of Mexico. According to a preliminary survey about 30,000 HP. can be developed. The concession covers the course of the river for a distance of about thirty miles.

AMECA, JALISCO.—Aurelio Reyes is about to install a plant to furnish electric power to operate his alcohol factory in this city, and has also secured a contract to establish an electric light and power plant for the town and district.

CITY OF MEXICO.—Jose V. Garza, Mgr. Tamaulipeca Brick & Lime Mfg. Co., Ltd., has applied for a concession to utilize 50 liters of water per second from Lake Champayan, in the state of Tamaulipas, for motive power for the brick and lime factory situated at station Cervantes, 40 kilometers from Tampico.

CULIACAN, SINALOA.—An American company, represented by Jesus Almada, has submitted a proposition to take over the old electric plant in this city and to improve the service and extend the lines, and also to install a telephone service, with lines to the principal towns adjacent. The old light plant is owned by Carlos Escovar.

IXTLAN DEL RIO, JALISCO.—Ugarte & Garcia, Guadalajara, have secured contract for the construction and equipment of the electric light and power plant in Ixtlan del Rio. Steam power will be used at first, but later on power will be generated by water from the falls at Ojo de Agua.

LEON, GUANAJUATO.—Oscar Braniff, of the City of Mexico, has contracted with the Guanajuato Electric Power Co. to furnish, in the city of Leon, 1,000 HP. by electric transmission. The transmission line from Guanajuato will be 40 kilometers long. An improved electric light system will be installed, and steel poles will be used in the streets, and power will be furnished for industrial purposes.

MAZATLAN.—The City Council is stated to have rescinded its lighting contract with Escobar Bros., and has made a contract with Jose H. Rico and Andres Avendano, or the company they may organize.

BRIDGES.

SAN MARCOS, GUERRERO.—State Government has granted subsidy of $500 per month for engineering work on wagon bridge which this city proposes to construct over Nazareno River at a cost of about $40,000.

BUILDINGS.

CITY OF MEXICO.—The Catholic Bank is to remodel its bank building, Calle de Capuchines, No. 12, by adding a fourth story and covering the patio with glass. An expenditure of about $50,000 will be made.

READERS' WANTS

This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, **UNLESS OTHERWISE REQUESTED**, which request will be honored absolutely. The information **in all cases will be sent to our advertisers** handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.

CONCRETE WATER CONDUITS.—Morristown, N. J.—Arthur S. Pierson, Cy. Surv., Babbitt Bldg., wishes to secure information regarding concrete for the construction of water conduits, to be about 3 ft. in diameter.

WHARF CONTRACTORS.—Delaware City, Dela.—Capt. Louis F. Garrard, Jr., Q. M., U. S. A., wishes the names and addresses of contractors who are prepared to do wharf work which is proposed to remodel and overhaul, at Fort Mott, N. J.

TENTS AND STEAM SHOVELS.—Thomasville, N. C.—We are informed that E. L. Propst & Co., R. R. contractors, of Charlotte, N. C., wants to purchase two tents, 20 × 30 ft., and a 1-yd. steam shovel (2d) for work on the Thomasville & Denton R. R.

REMOVING CEMENT STAINS FROM LIMESTONE.—Memphis, Tenn.—Chas. R. Miller Paving Co., 337 Mississippi Ave., wishes to get into correspondence with firms that have a preparation for removing stains from cement work, especially cement stains from limestone.

LEATHER, WOOD WORKING AND TEXTILE MACHINERY.—Austria.—F. Winter, C. E., of Owosso, Mich., writes us that he represents a large machine importing house in Austria, and has been asked to secure names and addresses of firms in the U. S. who manufacture labor-saving machinery, used in connection with leather, wood-working and textile industries.

BOILERS (40 HP.), BUILDING (2-story) CEMENT (1,000 bbls.), GAS ENGINES (5 HP.), GAS PIPE (30,000 ft.), CONTRACTOR'S LIGHTS (60), METERS (water and electric, 700), PIPE CUTTING MACHINES (2), PUMPING ENGINES (2), SHOVELS (hand, 100), DERRICK (1), PICKS, BARS, etc.—Bennington, Vt.—J. R. Dawson, a contractor of Bennington, who has the contract for building the plant of the Bennington Gas Co.

BUCKETS (dumping), CANDLES (mining), CANDLE STICKS (mining), CARS, CAR LOADERS, CRUSHING MACHINERY, DRILLS (electric and hand), EXPLOSIVES, FUSE HAMMERS (double hand), HOISTS, PICKS (mining), WIRE ROPE, SHOVELS (hand and steam), SURVEYING INSTRUMENTS, TRACK MATERIAL, TRACTION ENGINES, WATER TANKS, WASHING and WELL DRILLING MACHINERY.—Norton, Va.—A. D. Branham, Pres. Va. Oil, Coal & Mineral Co., Norton, Va., is in the market for the above mentioned supplies to be used in work at a lead mine.

CITY OF MEXICO.—Reports of Aug. 31 stated that National Railroad Lines of Mexico, Dr. R. H. L. Bibb, Ch. Surgeon, was to let contract at once for new hospital at Puebla. Plans have also been made for new hospitals at Mexico City and Monterey.

WATER-WORKS.

LAMPAZOS, NUEVO LEON.—General Francisco Naranjo has obtained concession for establishing a large irrigation plant in this section. The water supply will be obtained from the Salado River.

AGUAS CALIENTES, AGUAS CALIENTES.—Governor Vasquez de Mercado, of this state, is promoting establishment of large irrigation enterprises and is being aided in his plans by the federal government and by prominent capitalists. He proposes to construct an immense storage reservoir by building a dam across the Santiago River. Thomas Medina Ugarte, an engineer of this city, has made a preliminary survey of the proposed reservoir and he estimates that it will afford a capacity of 45,000,000 cubic meters of water, and that it will cost about $311,000. Canals will be constructed leading from the reservoir through the lands that are to be irrigated, and the estimated cost of the canals is an additional $500,000. It is stated that all arrangements for financing the enterprise have been made and that the construction work will be commenced as soon as the final surveys are completed.

AJUCHITLAN, GARRERO.—Emilie Cornu, City of Mexico, will establish a large system of irrigation near here. The water supply will be obtained from the Truchas River.

CULIACAN, SINALOA.—The federal government has granted a concession to Mrs. Alejandra V. de Redo, of Culiacan, giving the right to divert 10,000 liters of water per second from the San Lorenzo River near this city. Canals will be built to convey the water for irrigation to several points in the district.

MANUFACTURING PLANTS.

CITY OF MEXICO.—A company is being formed in which local capital is interested; for erecting in Tabasco two large factories, one for making alcohol and other for manufacturing purposes.

CITY OF MEXICO.—The Development Co. of America, in which Senator Russell A. Alger, Detroit, Mich, and F. M. Murphy, Detroit, Mich., are interested, propose to build saw mills and railroad to handle their vast timber land products.

CITY OF MEXICO.—The Compania Constructora de Obras de Cemento, Capuchinas No. 12, City of Mexico, which was recently formed with a capital stock of $200,000, will soon commence the erection of its shop buildings. The machinery for its cement blocks plant has been purchased in the United States.

DURANGO.—John J. Wescott, Beaumont, Tex.; F. M. Currie, Omaha, Neb., and F. Young ,of Boston, Mass., are about to close a deal for the purchase of 700,000 acres of pine timber lands, situated in the Sierra Madres of this state. It is stated that if the transaction is consummated they will establish large lumber mills.

GUADALAJARA.—Republic Manufacturing & Importing Co. has been organized to manufacture baking powders, extracts, etc., in Mexico. The plant will probably be erected at this place. A coffee roasting plant may be installed also. O. V. Waggoner, El Paso, Tex., will be Manager.

QUERETARO.—The Federal Government has granted the concession for the establishment of a large malt factory in the state of Queretaro, previously referred to. Under the terms of the concession at least $150,000 must be invested in the plant. Plans of the proposed installations, buildings, etc., must be submitted within three months of the date of the concession, and construction commence within the next three months. Machinery, tools, etc., required for the factory are to be admitted free of duty. Lic. Domingo Barrios Gomez, City of Mexico, is the concessionaire.

SABINAS HIDALGO, NUEVO LEON.—A good-sized plant for the manufacture of ropes, mattresses, sacks, etc., is to be built at Sabinas Hidalgo, state of Nuevo Leon, Mex., according to reports. M. Terrazos, Guadalajara, Jalisco, is largely interested in the project.

MISCELLANEOUS.

CONCENTRATING PLANT.—Chihuahua.—Arrangements are being made, according to reports, to install, in the near future, a 200-ton concentrating plant to separate the zinc by the Witherell magnetic process and obtain lead concentrates, at the San Diego mine, Santa Barbara district, state of Chihuahua.

CYANIDE PLANT.—Chihuahua.—It is proposed, as soon as expedient, to erect a cyanide plant at the El Tigre mine, state of Chihuahua. Smelting in reverbatory furnaces will also be done as soon as copper and iron for fluxing can be developed near the property. B. F. Graham is Pres.

MINE DEVELOPMENT.—El Oro.—Chihuahua Mining Co. has transferred its stock to the Chihuahua Mining Co., of El Oro, and $50,000 will be raised to carry out development work at the mine.

CYANIDE PLANT.—Chihuahua.—Local reports state that a cyanide plant is to be built on the ground of the Dolores mine in western Chihuahua, of which J. Gordon Hardy is Gen. Mgr.

MINING MILL.—City of Mexico.—Stockholders of the Compania Monera Los Ocotes are stated to have accepted offer of the Los Ocotes Mining & Milling Co. to merge interests, and the company expects to continue development work and possibly erect a mill. S. C. Schultz is Pres, and R. A. Mills, Secy.

COAL FIELD DEVELOPMENT.—Sabinas, Coahuila.—H. G. Collins and Eusebis Gonzales are preparing to develop a new coal field situated near here.

MINING DEVELOPMENT.—Queretaro.—Braniff Mining & Smelting Co. has been organized with $3,000,000 capital. It is stated that $500,000 gold will be expended for developing the Caderayta mining properties in the state of Queretaro. A concentrating plant of 200 tons is to be erected at Maconi. E. G. Spilsbury, of Spilsbury Engineering Co., 42 Broadway, New York, has recently returned from Mexico, where he went in connection with the enterprise.

FOREIGN CONTRACTS—EXPORT NEWS.

ELECTRIC PLANT.—England.—Town of Wisbeck is considering borrowing $125,000 for electric supply.

PORT IMPROVEMENTS.—Chili.—The bill for the improvement of the port of Valparaiso has been passed by the Chilean Senate.

ELECTRIC TRAMWAY EXTENSION.—New Zealand.—The City Council of Wellington propose to float a special loan of $385,000 for the extension of the electric tramway to Island Bay, Ohiro and Kilbirnie.

IRRIGATION CANAL.—Argentina.—A bill has been laid before congress by the Government authorizing the expenditure of $453,297 in the construction of an irrigation canal in the colony of General Roca, in the territory of Rio Negro.

ELECTRIC PLANT, MAINS.—England.—The Oldham Town Council will apply for sanction to borrow $240,000, partly for extra expenditure on buildings and plant in connection with the Greenhill and Rhodes Bank electric stations, and partly for new mains.

FILTRATION PLANTS.—Brazil.—Municipality of San Paulo is stated to be considering filtering its water supply, and Prof. Augustos Ramos, a professor in the Polytechnic Institute at San Paulo, is in the United States as a representative of the Brazilian Government, to investigate various filtration plants.

ELECTRIC POWER PLANT.—South Africa.—E. G. Clifford Jones and W. Oliver, Cape Town, have been appointed consulting engineers in connection with the Umtata combined electricity and water supply scheme. It is proposed to utilize the power of the falls on the Umtata River, 3½ miles from the town, for the generation of electric energy to be used during the day for pumping and at night for lighting.

WATER-WORKS.—South Africa.—The Legislative Council has passed the bill providing funds for carrying out the Rand Water Boards scheme for providing Johannesburg and the mines with water. By the engineer's estimate the cost of providing an immediate supply totals about $11,334,000, and the cost of providing an additional supply sufficient to meet all future requirements amounts to about $14,250,000, making the total cost of proposed system well over $25,000,000.

STEAM AND ELECTRIC TRAMWAYS.—Spain.—Madrid "Gazette" of Aug. 24 contains notice authorizing Don Damaso Carcamo y Renz to survey a meter gage steam tramway from Barco de Avela to Bejac, with branch from el Barco to Plasencia. The same paper in its issue of Aug. 28 publishes an announcement that the Sociedad Tranvia del Este at Madrid has made application for a concession for certain lines of electric tramway in Madrid in extension of the existing railway system.

TRAMWAYS, LIGHTING PLANT, ETC.—Honduras.—Wm. E. Alger, U. S. Consul, Puerto Cortes, Honduras, reports that a concession has been given to Capt. J. W. Grace, an American, to grade and improve the town of Puerto Cortes. It is understood that the contractor will have the right to place a valuation on the improved lots. The work is to be commenced within four months and completed within five years. The contractor is to lay tramways and construct modern lighting works, and, if necessary, to form a company to carry on the work.

PUMPS, PIPING, ETC.—England.—London County Council, G. L. Gomme, Clk., County Hall, Spring Gardens, S. W., London, will receive bids until Oct. 4 for the manufacture, delivery and erection at the Council's tramways electricity generating station at Greenwich of the follow-

ing plant: Two 24-in. centrifugal pumps and motors, one 3-in. centrifugal pump and motor, two 8-in. × 8-in. three-throw air pumps and motors, one 3-in. artesian well pump, fixed and rotary strainers, etc. Bids are also asked until same date for condenser water pipes, supports, valves, etc.

WATER PIPE, STEAM SHOVELS, ETC.—Panama.—Isthmian Canal Commission, Washington, D. C., is taking bids until Sept. 21, as advertised in Engineering News, for furnishing about 4,300 tons of water pipe and special castings for use in Panama. Specifications for water pipe and castings are on file at office of Engineering News, 220 Broadway, New York. Bids are also being asked by the Commission until Oct. 6 for furnishing five steam shovels of 65 to 75 tons weight, and six steam shovels of 90 to 100 tons weight. Bids for furnishing a large quantity of dynamite and powder are also being called for. The above work is likewise advertised in Engineering News.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*SEWER SYSTEM.—Laurel, Miss.—Bids were received Sept. 2 for constructing sewer system here. Iowa Engineering Co., Clinton, Ia., were the engineers, and their estimate of cost of the work was $16,245. The following bids were received; (1) C. M. Rubush, Meridian, Miss.; (2) Sullivan & Long, Bessemer, Ala.; (3) W. C. Porter, Laurel, Miss.; (4) Monahan Bros., Joliet, Ill.:

INDUSTRIAL NOTES.

OUR READERS are requested to send short notes regarding new contracts that they are about to award, or have secured, for our news columns. "Changes in firms' names and addresses are also wanted. "Write-ups" will not be inserted under any circumstances, as notes must contain news of interest to our readers. If our readers are in the market for any kind of machinery, tools, etc., we shall be glad to send them names of responsible firms making what they want.

THE CLIMAX ROAD MACHINE CO., of Marathon, N. Y., through its Pittsburg office, has secured the contract for a steel highway bridge to be erected at Manor, Pa. It is to be 56-ft. long and 14-ft. roadway, with concrete abutments.

H. W. JOHNS-MANVILLE CO., 100 William St., New York, announces that Mr. R. C. Routledge, formerly of Messrs. Thos. F. Smith & Co., New York, which concern has gone out of business, will take charge of its contract department, to which he will give his undivided attention.

THE CARNEGIE STEEL CO., Homestead, Pa., has received a contract from the Japanese Government for 7,500 tons of the finest grade nickel steel plates. The plates are for use on Japanese battleships. The order will keep the 84 and 184-in. mills of the Homestead plant busy for 3 months.

Bids received at Laurel, Miss., September 2, 1904, for Constructing Sewer System.

Items.	Quantities.	(1)	(2)	(3)	(4)
16-in. cast iron pipe	36 ft.	$3.50	$2.75	$5.00	$4.00
20-in. vitrified pipe, av. cut 6.5 ft.	4,200 ft.	.87⅛	.89	.90	2.00
18-in. " " " 13 ft.	2,027 ft.	.79½	1.05	1.45	1.25
15-in. double strength Pipe, av. cut 10 ft.	367 ft.	.77	1.35	1.75	1.45
12-in. vitrified pipe, av. cut 9.2 ft.	644 ft.	.51½	.65	.60	.80
10-in. " " " 10.5 ft.	1,516 ft.	.38½	.57	.50	.60
8-in. " " " 8.0 ft.	11,887 ft.	.38	.44	.43	.50
Manholes, av. depth 8.2 ft.	43	46.20	31.00	35.00	30.00
Flush tanks	13	69.10	62.50	70.00	80.00
Timber left in ditch		......	15.00	15.00	20.00
Totals		$13,996	$15,094	$16,242	$21,208

*PORTLAND CEMENT.—Boise, Idaho.—Following bids per barrel were received Aug. 25 by Engineers U. S. Geological Survey for 14,000 bbls. Portland cement for use on Minidoka irrigation project: Utah Portland Cement Co., Ltd., Salt Lake City, Utah, $2.95; Portland Cement Co., Denver, Colo., $3.26; Kansas Portland Cement Co., Iola, Kan., $3.37; Atlas Portland Cement Co., 30 Broad St., New York, $3.71.

BRICK PAVING.—Morris, Ill.—Contract for constructing brick pavement on Liberty St., was let Aug. 23 to H. C. Finley, Hoopeston, Ill., for the following bid: 17,767 sq. yds. more or less of brick pavement, including concrete foundation, with Barr brick, at $1.62; 4,031 lin. ft. curbing, more or less, including excavation and back filling in place complete, 52 cts.; 7,190 cu. yds. excavation, 25 cts.; 12 manholes, each $35; 40 catch basins, each, $35; 1,454 lin. ft. 8-in. sewer pipe laid, per foot, 18 cts.; 330 lin. ft. 10-in. sewer pipe laid, per ft., 26 cts.; 1,784 lin. ft. excavation under 6 ft. deep, per foot, 20 cts.

*LEVEES AND MASONRY STRUCTURES.—Columbus, O.—Bids were received Aug. 31 by Board Public Service for excavating ditch and building levees and masonry structures. The bids were informal and were deemed too large and consequently were rejected. New proposals are asked until Sept. 27. Julian Griggs, Ch. Engr. Bd. Pub. Service. Bids received were as follows, all bidders being from Columbus; (1) Murphy & Miles, (2) D. E. Sullivan & Son, (3) Fisher & Knight:

THE BALTIMORE & OHIO R. R. CO., Baltimore, Md., will probably award contracts for steel rails for next year's delivery. The rails ordered for delivery during the present year amounted to 50,000 tons. The ordinary requirements of the company run about 35,000 to 40,000 tons a year. There is still some unfinished construction upon which rails are to be laid next year, and this year's order may be as big as last year's. This would mean an outlay of about $1,400,000.

THE NEW YORK CONTINENTAL JEWELL FILTRATION CO., of New York and Chicago, report an active demand for its water purifying appliances. Among its recent sales are the following: Peter Breidt City Brewery Co., Elizabeth, N. J.; Crystal Ice & Power Co. (ice plant), Danville, Va.; Jerome Avenue Pumping Station (boiler service), New York City; R. H. H. Steele laundry, Jersey City, N. J.; The Orr Co., Troy, N. Y. (paper manufacturers), increasing its large plant previously installed by the above company. Also the following from textile mills: Chas. H. Witty & Bro., Philadelphia, Pa.; A. H. Sims Co., Montreal, P. Q., Canada; Laurens Cotton Mills, Laurens, S. C.; J. & P. Coats, Ltd., Pawtucket, R. I.

THE WALTER A. ZELNICKER SUPPLY CO., in St. Louis, reports that it has established two new sales offices. Owing to a large and increasing Western business, an office has been opened in Denver, Colo., located at No. 1711 Tremont St. Its branch office at Seattle attends

Bids received at Columbus, O., August 31, for Excavating Ditch and Building Levees and Masonry Structures.

Items.	Quantities.	(1)	(2)	(3)
Dry excavation foundation	18,000 cu. yds	$0.51	$0.50	$0.60
Wet excavation foundation	5,000 "	1.00	1.00	.90
General embankment	210,000 "	.27	.26	.35
Rolled embankment	37,000 "	.50	.56	.60
Seeding	4 acres	50.00	40.00	10.00
Concrete	2,900 cu. yds	10.00	10.50	10.00
Vitrified sewer pipe	150 lin ft.	.50	.50	.45
Broken stone or gravel	1,400 cu. yds	1.50	1.50	1.50
Stone paving	1,400 "	4.00	4.00	3.00
Miscellaneous iron work	25,000 lbs	.05	.05	.06
McDowell Street outlet	Lump sum	400.00	400.00	850.00
Mound Street outlet	Lump sum	600.00	600.00	750.00
Totals		$128,605	$129,955	$149,007

*CONCRETE SEWERS.—Washington, D. C.—Bids were received Aug. 22 by District Commissioners for improvement of sewer system. Sewers are to be of concrete and price bid does not include excavation nor repaving. D. E. McComb, Supt. Sewers. Bids received were as follows: (1) Sullivan Bros., Philadelphia, Pa.; (2) J. H. Lochheim, Philadelphia, Pa.; (3) Warran F. Brenizer Co., Washington, D. C.:

Items.	Quantities.	(1)	(2)	(3)
Earth excavation	33,800 cu. yds.	$1.29	$1.66	$1.37
Concrete, B	3,075 "	8.50	9.00	7.70
Brick-work	225 "	12.25	13.50	12.90
Concrete, C	5,150 "	8.00	8.50	7.20
Vitrified masonry	600 "	22.00	21.00	20.00
Under drains	3,500 ft.	.30	.40	.25
24-in. sewer	200 lin. ft.	3.00	1.00	1.50
Totals		$128,771	$144,795	$123,741

*SEWERS.—Bridgeport, Conn.—Following bids were received Aug. 31 for constructing sewer in Huntington Road; H. G. Scofield, Cy. Surv.; (1) The Pierce Mfg. Co., Bridgeport, Conn. (awarded contract); (2) B. D. Pierce, Jr., Co., Bridgeport, Conn.:

Items.	Quantities.	(1)	(2)
48-in. brick sewer	1,600 ft.	$8.39	$8.59
Manholes	200	2.75	2.75
Catch basins	2	35.00	34.00
8-in. cement pipe	30 ft.	.35	.35
Rock	10 yds.	4.00	3.50
6-in. slants	50	.25	.30

*PAVING.—Columbus, Ind.—Bids were received Aug. 18 for paving in this city, the contract being let to Barber Asphalt Paving Co. The work required laying of 8,310 sq. yds. asphalt on 6-in. Portland cement concrete foundation, with 1-in. binder and 1½-in. top coat; also laying of 3,920 sq. yds. brick on street car tracks, with extra 6-in. concrete under crossties. A 10-year guarantee was required on all work. The bids received were as follows, all bids on brick being for Culver block and all on asphalt being for Trinidad brand, unless otherwise stated: (1) for asphalt paving, (2) for brick: Barber Asphalt Paving Co., (1) $1.92, (2) $2.44; Forbes & Foulke, Terre Haute, Ind., (1) $2.04, $1.95 (California), (2) $1.93; C. M. Keller & Co., Columbus, Ind., (1) $2.06, (2) $2.56. W. H. Rights is Cy. Engr.

to the extreme Western and Northwestern trade. Recent improvement in sales of the "Zelnicker" specialties and supplies in the East caused this firm to locate a sales office in New York City at No. 45 Dey St., to attend to the Eastern business. The firm now maintains branches in Mobile, New Orleans, Seattle and sales offices in Houston, Denver and New York. Its rail yard and ware house is located in East St. Louis, Ill., and factory at New Madison, Ohio, where they manufacture the "Double Clutch" car mover.

THE INGERSOLL-SERGEANT DRILL CO., 26 Cortlandt St., New York, has just received from S. Pearson & Son, Inc., who are building the Pennsylvania Railroad tunnels under the East River and Long Island City, the contract for two complete compressed air power plants, ready to operate. The combined capacity of the plants consists of 50,000 cu. ft. of low-pressure air per minute and 12,000 cu. ft. of high-pressure air per minute. The same company recently received an order from the O'Rourke Engineering & Construction Co. for the compressed air plants to be used in building the Pennsylvania tunnel under the Hudson River. The contract just awarded includes the following: Eight 16-in. and 34-in. and 26½-in. × 42-in. semi-tangye frame Corliss air compressors; 2 16-in. and 34-in. and 22¼-in. × 15½-in. × 12-in. semi-tangye frame Corliss air compressors; 2 16-in. and 34-in. and 15½-in. × 42-in. semi-tangye frame Corliss air compressors; 10 57-in. iron body vertical after-coolers; 10 54-in. × 12-in. vertical air receivers; 2 60-in. × 14-in. vertical air receivers. The equipment for these five plants will consist of the following: Ten 500-HP. Sterling boilers; 2 complete gravity oiling systems; 10 feed-water controllers; 4 forced-draft fans and engines; 6 12-in. and 7-in. × 12-in. Duplex feed pumps; 2 3,000-HP. open-feed water heaters; 6 surface condensers; 6 air and circulating pumps for condensers; 2 hot well pumps; 6 3,000-gal. centrifugal circulating pumps, with engines; 6 oil separators, for separating oil from exhaust steam; 2 air intake conduits and stacks; all steam piping and covering, and exhaust piping and covering; steam separators; all boiler-feed piping; circulation water piping; guard rails, and drip-system piping. This order covers two complete plants erected on foundations. Will be erected under the personal supervision of Mr. J. H. Jowett, Sales Manager of the company.

DRAINAGE.

Hackensack, N. J.

Sealed proposals will be received by the Drainage Commission, at the office of Mabie & Maidment, Union Banking Building, Hackensack, N. J., on September 26, 1904, at 5 o'clock p. m., for the excavation and construction of a drain from the Pond at Cherry Hill to Essex Street, Hackensack, the approximate length being two and one-quarter miles and the approximate quantity of excavation 22,000 cubic yards.

Plans and specifications may be seen and blank forms of proposal obtained at the office of Mabie & Maidment, or at the office of Lemuel Lozier, Engineer, Union Banking Building, Hackensack, N. J.

The Drainage Commission reserves the right to reject any or all bids.

HENRY C. ADAMS, Prest.
CLARENCE MABIE, Secy.

The specifications may be seen at the office of Engineering News, 220 Broadway, New York. 11-2t

SUB-STRUCTURE.

Office of the Board of Public Works,
Oshkosh, Wis., Sept. 2, 1904.

Notice is hereby given that sealed proposals will be received at this office until Saturday, Oct. 1st, 1904, at 12 o'clock noon, for the furnishing of all material and labor for the construction of the substructure of the proposed bridge over Fox river, connecting Main street and South Main street, Oshkosh, Wis., according to plans and specifications on file in the office of the city clerk.

Forms for proposals will be furnished on application.

Plans and specifications may be seen and forms for proposal obtained of Karl L. Lehmann, Consulting Engineer, 910 Opera House Bldg., Chicago.

The right is reserved to reject any and all bids.

M. COFFEY,
FRED. BEDUHN,
E. S. HINMAN,
11-2t Board of Public Works.

STEEL STANDPIPE.

Spring Valley, Ill.

Sealed proposals will be received at the office of the city clerk, Spring Valley, Illinois, until 5 P. M., Sept. 29, 1904, for furnishing and erecting complete, with foundation, one steel stand-pipe 22 ft. in diameter and 100 ft. high, the same to be built in accordance with plans and specifications therefor, which may be seen at the office of the city clerk of Spring Valley, Illinois, or at the office of M. A. Earl, consulting engineer, 1416 First National Bank Building, Chicago; proposals are also invited on a 150,000-gallon tank erected on a steel tower, having a total height of 115 ft., designs to be submitted by manufacturers. A certified check of 10%, made payable to the city treasurer, is required with each bid. The city reserves the right to reject any or all bids.

ANTON FALETTI,
City Clerk,
11-2t Spring Valley, Ill.

SCHOOL BUILDING.

Greenville, Miss.

Proposals are invited for erection of new school for City of Greenville, Miss., to be delivered to W. Yerger, Mayor, at Greenville on or before 12 M., Oct. 6, 1904. Drawings on file at Mayor's office, Greenville, and at office of Kenneth McDonald and J. F. Sheblessy, Archs., Louisville, Ky. Bids to be sealed and accompanied by certified check for $500.00. Right is reserved to reject any or all bids and to waive formalities.

Deposit of $10.00 is required to insure return of plans. 11-2t

FORT MEADE, S. D., September 15, 1904.—Sealed proposals in triplicate will be received until 2 p. m., September 30, 1904, for constructing at Fort Meade, S. D., a five hundred thousand gallon reinforced concrete reservoir. Bidders must state time in which they will complete work. Information furnished upon application. Plans and specifications can be seen with Quartermasters, New York, Saint Paul, Denver, Cheyenne, Omaha. A guarantee in amount of 10% must accompany proposals. Envelopes containing proposals should be marked "Proposals for Reservoir, Fort Meade, S. D.," addressed GEORGE L. BYRAM, Constructing Quartermaster. 11-2t

U. S. ENGINEER OFFICE, New London, Conn., Aug. 26, 1904.—Sealed proposals in triplicate for dredging at Milford Harbor, Conn., will be received here until 12 o'clock noon, Sept. 17, 1904, and then publicly opened. Information furnished on application. C. F. POWELL, Lt.-Col., Engrs. 9-3t